

THE *Canadian Hospital*

A Monthly Journal for Hospital Executives



Toronto, Can.

The Edwards Publishing Company

May, 1926



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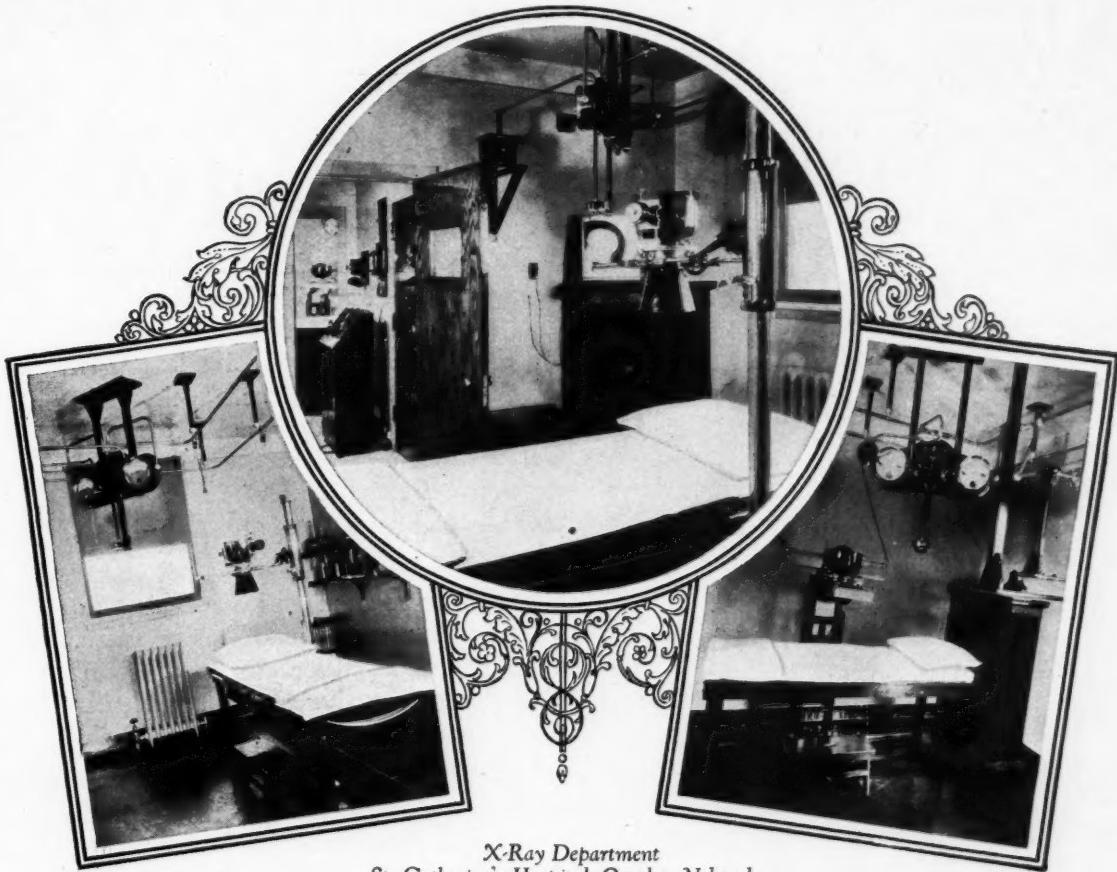
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Our First Annual Directory Number

The publishers of The Canadian Hospital are pleased to present, with this issue, a directory of equipment and supplies used in our hospitals, sanatoriums and allied institutions.

This, we believe, will prove a convenient reference for the busy hospital executive. It places at the finger tips the principal markets for Building Materials and Building Equipment; General Equipment, Furnishings and Supplies; Clinical and Scientific Equipment and Supplies; Laundry Equipment and Supplies; Food Service Equipment and Supplies, and Foods and Beverages.

Every effort has been made to present the "Hospital Buyers' Directory" in such a way that the in-

formation contained therein may be complete and yet condensed sufficiently to facilitate quick reference.

It is planned to make this Directory an annual feature of The Canadian Hospital, and any suggestions submitted with a view to increase its usefulness and value will be greatly appreciated.



Nurses Study Types of Service

The first general session of the Registered Nurses' Association came to a close on April 10th after a successful meeting. The convention was attended by not only the members of the association itself, but by nurses from all parts of Ontario, who came as interested visitors.

The last day's session dealt with the consideration of the resolutions presented by the three nursing divisions and recommended to the meeting by the Resolutions Committee, and the election of officers for the ensuing year.

Miss Jean Gunn gave the report of the Resolutions Committee, among the resolutions adopted being: "That the executive of the Registered Nurses' Association of Ontario see that steps are taken to make a thorough study of the best type of service in homes disorganized by illness.

"That steps be taken to consider means of encouraging student nurses in small cities to qualify for public health nurses.

"That a small committee be appointed to study the best means of co-operation between the R.N.A.O. and the Ontario Medical Association.

"That the R.N.A.O. approach the Ontario Hospital Association and the Ontario Medical Association to use their influence to have the press refrain from publishing articles which would bring unfair criticism on hospitals, thereby lessening the confidence of the public in that institution.

"That the R.N.A.O. endorse the wish of the national organization of nurses to sever affiliation with the National Council of Women of Canada, the Social Service Council of Canada and the Child Welfare Council of Canada, without ceasing to offer co-operation with these three organizations.

"That the R.N.A.O. disapprove the practice of student nurses acting as surgeons' assistants when a practitioner is available."

The following executive of the Registered Nurses' Association of Ontario was elected for 1926-27: President, Miss Florence Emory, University of Toronto; First Vice-President, Miss Edith Rayside, Hamilton General Hospital; Second Vice-President, Miss Bertha Hall, V.O.N., Ottawa; Secretary-Treasurer, Miss Ethel Scholey, Department of Public Health, Toronto.

It was decided to hold the next meeting in St. Catharines.

The officers elected in the Public Health Section were: Chairman, Miss Dycke, Toronto; Vice-Chairman, Miss Jackson, Ottawa, and Secretary-Treasurer, Miss Hamilton, Toronto.

Buying The Hospital's Supplies

By ERNEST H. BARTLETT
Toronto

There is an old axiom which states that "an army marches on its stomach." This, although hardly expressed in the most polished manner, has the merit of being both true and pithy. In other words, the success of an army is controlled by the efficiency of its commissariat. The same applies, to a large extent, to hospitals, and it is purported in this article to outline various methods of purchasing stores, both medical and general, as adopted by the larger hospitals. Not that any one method is standard, far from it, but, after years of experimental work on behalf of different organizations, each striving to instal a perfect purchasing system, it follows that the basic principle of each must be markedly similar.

It must be admitted that centralized purchasing, as practised in nearly all of the Canadian hospitals, has come to stay. That is to say, drugs or stores, medical equipment or furniture—all of the multitudinous requirements of the present institution are purchased by one man, instead of by the various departmental heads as before. In the smaller hospitals perhaps, the superintendent has this duty added to his others. He, as the chief of the hospital, is responsible. In the larger hospitals, the purchasing agent fills the post and is the highly skilled head of a department essentially his own.

Centralized Buying System

There are several phases of the centralized buying system, under one head. The purchasing agent may be given arbitrary powers in all matters, with all the buying left to him. He must be a skilled buyer to fill such a position, for, even in business, there is probably no institution such as a hospital in which a more abundant variety of articles come under the buyer's attention. Again, his department may be merely the clearing house for other departments' needs, and his work mainly clerical. Or, as often happens, he may be called to work in co-operation with the heads of other departments, learning from them their needs and the best manner in which to fill them, and yet retaining his supreme position. This latter has been found, in many cases, most effective.

A system of centralized or consolidated buying which has proved itself, is that in force in the Department of Soldiers' Civil Re-establishment. Apparently simple, it is really the result of a carefully thought out scheme, and well repays the trouble expended upon it. At specified times, every three months in this instance, all stores are reviewed, and an inventory made. The requirements of all departments are considered, and requisition forms, necessary to make up the balance, passed to the purchasing agent for action. Upon them are annotated the quantity required, the amount on hand and the average monthly consumption. Requisitions are passed sufficiently far ahead to allow time for the calling for tenders, ordering, and delivery of the goods, without any chance of the institution running short.

Separate Tenders Asked.

The purchasing agent, upon receipt of the requisitions, draws up Quotation Requests, which are sent

through the regular channels to the customary sources of supply. Tenders are asked for, each item to be tendered for separately. On receipt of the tenders they are entered on a form scheduled for the purpose, upon which is indicated each item, the name of the firm tendering, and the quotations received. By getting itemised tenders advantage can be taken of the lesser price in each case, which a bulk tender would make impossible. A considerable difference in price, even in standardized articles, is quite common, and the saving surprising.

Of course, the D.S.C.R., in this system, arranges for the supplying of all units in the Dominion. Nevertheless, even for catering on a smaller scale, their system has proved extremely satisfactory.

Smaller hospitals, if co-operating, would find a remarkable saving by employing a similar method in the purchasing of certain items, particularly in food supplies. There would not of necessity be an amalgamation of the entire system, but the purchasing of definitely standardized hospital requirements could be combined under one head. The first need in such a case, which cannot be stressed too strongly, is the standardization of quality. With so many different brands of articles in use, some of them possibly of equal quality, and yet with departmental heads expressing a strong dislike for a certain brand, friction might easily be caused.

Disadvantages Outlined

On the other hand there are many who view the co-operative buying system with great disfavour. The loss of personal contact between hospital buyers and vendors is cited as one great disadvantage, meaning, as it does, the loss of the mutual exchange of ideas and information which is such an integral part of the education of a hospital purchasing agent. This cannot be estimated on a money basis, but undoubtedly there is a certain loss in this connection to the institution which favours co-operative buying. Looking at this phase in a broader manner, it would appear as if competition between vendors would be largely eliminated. The introduction to the market of new articles, even if markedly superior to the ones they were designed to supplant, would be no easy matter. Brands already known would be in demand, claiming precedence of brands newly introduced. A manufacturer with an established product would be able to defy competition, providing he had the good will of the hospital buyer. His adversaries in trade, with the one buyer alone to whom to market their goods, would be in an extremely unfortunate position.

Departmental Purchasing.

Another buying plan is that of departmental purchasing. Instead of having a central purchasing agent, the head of each department attends to his own wants, filling them on his own responsibility, and using his own judgment. By some it is claimed that this system provides perfect satisfaction for all concerned, and is most efficient. Who should know what drugs he needs better than the druggist? What

better buyer of food stuffs is there than the person responsible for feeding the patients and staff of the hospital? Theoretically this argument has much to favour it, but practically it has been almost abandoned. A good druggist is not necessarily a shrewd and skillful buyer, and the cleverest departmental head may prove to be a very inefficient and incapable purchasing agent. To every man his trade, and there is no doubt that purchasing is a task which entails all the skill of a specially qualified buyer. Such a man is always on the look-out for new markets, ready to seize advantages in price, and prepared to devote his whole energy to economic buying. These attributes can not be expected of a man to whom the purchasing of supplies is of but secondary importance.

Concentration of Purchases

Whichever system is used, and each has its devotees, there is no doubt that the concentration of purchases is almost universal. By this, a regular stock taking is instituted, and an equally regular replenishment of supplies provided for. Provision is thus made for the maintenance within the institution of all that is necessary, without having to resort to hurried ordering of an article which, by a little carelessness, has been allowed to run out of stock. The consequent confusion and unnecessary trouble, oft times with a sacrifice of cost to speed in obtaining, which result from a hurried order, are thus eliminated. Some hospital authorities have installed a simple set of store cards, showing a card for every item kept in stock, with the quantity received, quantity issued and the balance on hand. The price paid for the last purchase, if annotated on the card, is of considerable help to the purchasing agent when re-buying.

With such a set of cards the periodical inventory is a comparatively simple matter. The store keeper has but to make out his cards, see what is needed and bring the matter to the attention of the agent. Estimates of the amount necessary for the coming period follow, and the regular routine of purchasing takes place.

In addition to the convenience of such a system, it has its economic value. The buying is concentrated and labour is saved. Purchases can be made on

a certain date each month and vendors will find that this, in itself, is an attraction. They reciprocate by seeking the custom, and competition results. Competition is almost generally a fore-runner of more efficient buying.

Purchase of "Perishables"

Of course the above does not apply to the purchase of perishable articles, which are in a class by themselves. They must be obtained as needed, and require rather a different system. Monthly contracts for such items are common, in fact resorted to by almost every hospital. Let on a competitive basis they make for a substantial saving, and rigid specifications are protection for quality. They are easily handled and mean a great saving of time. Prices are set and it is only necessary to order as required. The receipts are checked against the invoices at the end of the month, and passed for payment.

Economy appears to have been the keynote of the above article, and economy certainly is the objective of most hospital executives. It is not of primary importance, however. Quality must not be sacrificed. The buying of quality articles at the best prices is the main aim of the various purchasing agents, and the systems outlined earlier, each in its own way, lead towards that attainment.

Charles R. Hosmer Donates \$20,000 to Cover Hospital Deficits

Grateful acknowledgement of the recent gift of \$20,000, through which the donor, C. R. Hosmer, had covered deficits of the Alexandra Hospital, Montreal, for the past two years, found general expression at the annual meeting of the Governors of that institution. Sir Vincent Meredith, Bart., Sir Herbert Holt, Farquhar Robertson and James Cleghorn, who, after having given valued services as members of the directorate, are no longer in this way associated with it, figured in appreciative reference by the President, Dr. A. D. Blackader, who occupied the chair.

Regret that absence through illness had kept Mr. Hosmer, the Honorary Treasurer, from the meeting, was noted, and, on motion of Dr. C. F. Martin and Dr. W. Grant Stewart, it was decided that the following letter be sent to this generous supporter of the Alexandra Hospital:

"Resolved that the Governors and Associates of the Alexandra Hospital would express to Mr. C. R. Hosmer their very genuine appreciation of his interest and unstinted generosity manifested on so many occasions and in so many ways."

"The Boards feel that without such assistance the Alexandra Hospital could never have attained its present enviable position for many years to come and for this the Boards express their sincere thanks."

"They take this occasion, too, to express their very great regret at his illness and hope that he may soon regain complete health and resume his sphere of usefulness at these meetings."

Every acquisition, won by investigation, is merely a step to the attainment of higher things in the eventful course of human affairs.—Humbolt.



Typical 8-Bed Ward.

Equipment for the Hospital

By WILLIAM D. CROW, A.I.A.
Crow, Lewis & Wick, Architects, New York.

In the equipment of a hospital certain provisions must be made to afford a sufficient measure of safety to the patients and to provide for their comfort and, no less important, to make certain that the work of the nurses can be performed with a minimum of effort and time. Comparatively simple equipment will meet these requirements to a reasonable degree, and entirely adequate equipment need not run into great elaboration. It is advisable to make sure that unnecessary equipment is not installed, not only to save the first cost, but to avoid the maintenance cost and use of space which installation of such equipment would entail.

The Ward Unit.

Each average ward of 24 beds should have a nurses' station, a chart room if possible, diet or serving kitchen, nurses' duty room or sink room, toilet and bath facilities for patients, and one or two quiet rooms for patients who must be removed from the wards for any reason. These adjuncts to the ward, in an economical plan, require a greater width than is necessary in the ward and should be grouped at the entrance end of a ward building. It is most convenient to place the duty room and patients' toilets nearest the ward, so that the traffic to them will not penetrate far into the central corridor and mix with other circulation.

As the dimensions of a building affording a good ward plan vary considerably from those of a building best suited for a private room plan, it is desirable when possible not to attempt to combine the two services in one building, although it is not possible often to so dissociate them. When this is the case some compromises must be made. Wards and semi-private rooms can be put in the same building without disadvantage, as the same dimensions of building and generally the same service arrangements are appropriate, excepting that an additional patients' toilet room will be required.

Nurses' Station.

The station should have a position commanding a view of the ward and preferably be elevated a step to give a better view. The nurses' station should be outside of the ward so that the nurse can sit in a comfortable temperature when that in the ward is low during the night. The equipment should be a nurse's desk, enameled steel with drawers and with two side pedestals, one with grooves into which the chart boards can be slid and the other pedestal with shelves for dressing trays, set up ready for immediate use.

A cabinet is necessary at the nurses' station for medicines and routine supplies. The cabinets should be made deep enough to hold flasks and dressings and should have doors with locks. A sink under the cabinet is a convenience, but need not be provided. A lighting bracket above the nurse's desk or a receptacle for a portable desk lamp is necessary, and a pilot light of the signaling system should be placed directly before the nurse a little distance

above the desk where it can be plainly seen. Outlets for exterior and interior telephones should be placed at the nurses' station. The chair should be comfortable and of wood; an enameled iron chair of an uncomfortable pattern is not necessary.

Signal Systems.

While signaling can be done by systems of bells or annunciations or combinations of both, operated from bush-buttons at the patients' beds, prevailing practice is to install one of the several good silent electric light systems now on the market. No system requiring current of above 10 volts should be installed because of the danger to the patient if he should accidentally receive a shock at a greater voltage from some defect in the push-button and flexible connector under his pillow.

In a usual installation, an outlet is provided on the wall at each bed location, from which a flexible cord conductor with push-button is run to the patient's bed. In wards or semi-private rooms it is desirable to have a small lamp on the signal circuit in each wall-set so that the point of origin of the call can be determined by the nurse when she enters the ward. The calling station, at the patient's bed, should have a push-button or other device, varying with different manufacturers, which is the only means of opening the signal circuit after the patient has sent in a call. This arrangement insures a visit of the nurse to the patient's bedside, all signals remaining lighted until this visit has been made. The resetting device should be of such a nature that it cannot be operated accidentally by a patient, thus canceling the call, nor should it be an arrangement which requires the nurse to use a key to open the circuit. A receptacle, on the full voltage lighting circuit, can be installed next to the signal outlet and under the same plate and will afford the current necessary for a hand lamp, table lamp or heating pad.

The calling stations described are wired so that the pressing of the extension push-button by the patient will light a lamp in the corridor over the door to the ward or room in which the call originates, and it will also light pilot lights at the nurses' station, duty room, diet kitchen and other places where the nurse may be expected to spend any time away from her station. The lighting of the pilot light directs the attention of the nurse to the fact that a call has been made, and by passing into the corridor she can determine the source of the call by the lighted signal over the door of the room or ward. In the case of divided wards, a signal lamp for each division, as well as a lamp over the entrance to the ward, aids the nurse in locating the call. Signal lights are made with buzzers attached, causing either momentary or continuous ringing, and these devices are useful under some circumstances where an audible call is needed, but, as the silence of a light signal system is one of its chief points of value, the buzzer attachments should be used sparingly. The light signal system can be equipped with an illuminated annunciation over the

nurses' station for each floor, and, further, the signal systems of all floors can be connected to an illuminated annunciator in the main office. The addition of the annunciators at the station adds nothing to the value of the system and does add somewhat to the cost. The general annunciator in the office affords a check upon the promptness of the nurses in answering calls, but it involves a considerable additional expense in many cases, and would not be particularly valuable where the supervision is thorough.

Signal systems should be installed in conduits, just as a lighting installation is made. The 10-volt current is most readily obtained by passing the 110-volt lighting current through a "bell-ringing" transformer. There are several makes of these transformers for alternating current, and recently a transformer for direct current has been put on sale.

Operating Department.

Movable operating room equipment varies and is often determined by the surgeons on the staff and the superintendent of nurses. To meet the requirements of the various surgeons a variety of equipment is necessary, and the selection should be left to the surgical staff.

Satisfactory equipment for a general major operating room is thus outlined: One instrument cabinet; one operating table; one stool for the surgeon and one for the anesthetist; one irrigator stand; one instrument stand; one solution basin stand, open ring at the top, cast base, mounted on casters; one anesthetist's set with ether apparatus and gas tanks, mounted on casters; one nurse's table, monel metal top, and shelf, size 20 x 48 inches, mounted on casters; one table, monel metal top and shelf, size 20 x 36 inches, mounted on casters; one drum stand, with two copper nickel-plated drums; one drum stand, with one copper nickel-plated drum, and one soiled dressing pail stand, cast base, open ring top, with steel porcelain pail.

The operating rooms should have lights providing for emergency light in the event of the failure of the electric current, these fixtures being fitted with eight electric bulbs and an auxiliary gas equip-

ment, which affords a 300-c.p. gas light immediately, should the electric current be interrupted.

Equipment for a minor operating room may be made up in this way:

One operating table; one anesthetist's stool and one surgeon's stool; one anesthetist's set; one soiled dressing pail; one dressing table; one solution basin stand with a revolving top and with two solution basins, and one irrigator stand.

General operating rooms, intended to be used also by specialists, would have much the same equipment as the major operating room, excepting that the operating table should be selected to meet the particular needs of the eye, ear, nose and throat, the gynecology, the orthopedic and other specialists, but as the requirements as to equipment for the use of different specialists vary so widely, it is not possible to provide fully for them in a general operating room, and special rooms and equipment should be provided for special work if possible.

Cabinets.

A considerable range of choice is possible in cabinets for various purposes in the equipment of a hospital. Varnished hardwood is the cheapest available material for cabinets and has the merit of standing hard usage for a long time without the necessity of refinishing. The appearance and characteristic construction of these cabinets would, however, restrict their use to duty rooms, diet kitchens and such other places as do not require strict asepsis or where appearance is not important.

Cabinets for dressings and instruments and the medicine cabinets at nurses' stations may be enameled wood or enameled steel, preferably the latter, as the construction can then be lighter and of better appearance, and the cabinets can be more thoroughly sanitary. Heavy plate glass shelves, supported on adjustable nickel-plated brackets and having Carrara glass bottoms, improve the appearance of cabinets and are more easily cleaned than wood shelves.

Instrument cabinets in operating rooms should be enameled steel, with glass shelves and bottoms, and with drawers below for large instruments; they can be portable or built in with the fronts flush with the wall. Portable instrument cabinets have the advantage of being cheaper than built-in cabinets and of giving more latitude in the placing of the operating room equipment. Built-in cabinets undoubtedly contribute to the simplicity of the appearance of the operating room, but usually they involve a waste of space by reason of the thick partitions which must be built to contain the cabinets.

Blanket warmers should be placed at a convenient distance from any room occupied by patients, and very near each operating room. It is to be borne in mind that hot blankets are needed in emergencies, and that it should be possible to get them quickly. Portable enameled steel blanket warmers are made for steam, gas or electric heating. A steel-lined and insulated blanket closet can be built into the building when the plan will permit, and heated as described for the portable blanket warmers. If high pressure steam is available at all times, it affords the best method of heating the blanket



A Modern Surgical Suite.

warmers, if reduced to 35 to 40 pounds pressure, as it requires no attention of the nurses. Gas heating is less expensive than electric heating, but needs attention while the electrically-heated warmers do not, further than switching the current on or off.

Clothes Lockers.

Private patients' clothes can best be kept in wardrobes in the rooms the patients occupy. A closet may be built in each room, but closets have the disadvantage of greater first cost than wardrobes and hamper the arrangement of furniture in a room, and the arrangement may have to be changed several times during the stay of a patient—at the request of the patient. Semi-private and ward patients' clothes can be kept in a locker in a room in each story, or a general locker room can be provided for the clothes of all these patients.

Having a receiving department, through which all ward patients must pass, is excellent practice. In this department the patient's street clothes are taken away, put through a disinfector and then placed in a locker in a nearby general locker room. The patient is bathed and dressed in hospital clothes before being taken beyond the receiving department. This is an excellent regimen as it minimizes the possibility of a new patient's carrying infection or vermin into the wards, which unfortunately has not been prevented under other forms of procedure. Lockers should be enameled steel with adequate ventilating openings. Lockers are made with mechanical ventilation for each group. In any case, the lockers should be placed in a dry and adequately heated and ventilated room.

Elevators.

The necessity for safe and reliable elevator service is apparent in every hospital of over one story in height. In hospitals more than four stories high, or of more than 75-bed capacity, there should be at least two elevators to provide for emergencies requiring the moving of many patients quickly, and one elevator for use during breakdowns or repairs to other elevators. Elevators for passenger use are best grouped, to permit changing over in operation and to provide for a sudden heavy demand for elevator service.

The only type of elevator to be considered under the conditions usually encountered is the electrically-driven elevator. For motive power either direct current or polyphase alternating current affords satisfactory results. Where choice of both kinds of current can be made, the direct current elevator is preferable in view of the fact that direct current electrical apparatus is somewhat quieter in operation than apparatus operating on alternating current. Alternating current apparatus, however, does not fall short of the requirements of a hospital installation, for in the past few years notable improvements have been made in the use of this current, and satisfactory operation can now be obtained with it.

As it is essential that mechanical and electrical noises be minimized in every way possible, it is important that all precautions be taken to prevent the transmission of such noises as are always inherent to machinery in motion. The first step is to place the driving or hoisting machine at the

basement or lowest floor of the building instead of locating it directly above the shaft, as is usual in other types of buildings. The machine should be placed on a substantial concrete foundation, and the foundation should be kept clear of all footings; in fact it is advantageous to surround the concrete block with sand instead of pouring the concrete flooring so that it connects thereto. The walls of the motor room should be, as far as possible, of such construction that they do not conduct sound. A sound-deadening partition with only a slot sufficient for the passage of the cables should be placed between the machine and the hatchway.

The minimum inside size of the elevator car to carry stretchers should be 5 feet wide by 7 feet deep, as this affords sufficient space for the stretcher and the attendant. As far as loading capacity is concerned, usually 2,000 pounds is sufficient and in fact generally in excess of actual requirements. However, in some localities there is prescribed a ratio between the car area and the loading capacity of the equipment, and where such laws exist they must be obeyed.

Car speeds can be proportioned to the length of travel. Usually 300 feet per minute may be considered the maximum speed that can be used profitably. For a five or six-story building 200 feet per minute is sufficient. If a lower building is contemplated, speeds as low as 150 feet per minute or even 100 feet per minute are not impractical.

Two methods of car control are available. In most cases, especially where the elevators are separated or installed singly, the automatic type of elevator with push-button control is preferable as with this type of elevator any of the hospital attendants can call or dispatch the car. If it is desired to restrict the operation of the elevator to certain persons, key-operated push-buttons may be used at the landings, with keys placed in the hands of those whom it is desired to have operate the cars. Where elevators are operated continuously the standard manual control by means of a switch in the car should be provided. This type of operation is most desirable in tall buildings and where elevators are grouped together.

Recently a new device has been perfected for automatically bringing the car platform exactly on a level with the floor of a landing. This device is applicable to elevators of either push-button or switch control, and is particularly necessary in a hospital elevator where a landing an inch or so out of level causes discomfort to patients on stretchers or in wheel chairs. The leveling device has the merit of obviating "false flights"—jolting the car up and down at a floor in an effort to make a level landing, with the incidental waste of heavy starting current. The most suitable type of car is a plain paneled enameled steel car, with a practically entirely covered roof and with a plain thin band of stained and wax-finished hardwood at the height of the hubs of the stretcher wheels. This band takes most of the wear on the car and makes refinishing less often necessary.

Laundry Chutes.

Soiled linen is customarily collected in canvas bags which are held in enameled iron bag holders

until the bags are full and closed and then sent to the laundry. The bag holders are placed in the duty rooms. Infected linen requiring disinfection is handled separately and does not go into the laundry bags. While the bags can be taken down on the elevator, it is a great convenience to have a clothes chute into which the bags can be dropped to the basement, from where they are taken to the laundry. Under this practice no contamination of the clothes chute takes place, and there is no necessity of supplying special means of cleaning the chute.

The clothes chutes should be of light plate iron with all joints butted and all rivets countersunk so that the interior of the chute will be smooth and not have roughnesses to wear or tear the bags. The diameter of the chutes should be about 2 inches greater than the diameter of the filled bags. The chutes will vary from 18 to 26 inches in diameter.

At each storey there will be required a door 30 inches high and the width of the diameter of the chute. These doors require angle-iron frames and the doors should be plate iron with spring hinges, latches and light checks to keep the doors from closing noisily. A plate iron collar should be provided from the frame of the door into the chute, the bottom sloping 45 degrees to carry the bag into the vertical chute.

A certain amount of vacuum is created by the passage of the bags down the chute, and while the clearance around the bags, recommended before, will reduce the vacuum, it is advisable to take the further precaution of providing an air inlet, about 8 inches square, with a wire screen, in the top of the chute, and to proportion the thickness of the plates used in the construction of the chute and doors to the height of the building, a tall building requiring the use of heavier metal than a low building. Means for arresting the momentum of the falling bags is necessary at the bottom of the chute.

A considerable number of hospitals have installed a special clothes chute made of sections of cast iron, lined on the inside with a glass enamel and provided with a flushing device at the top of the chute and a drain at the bottom. These chutes have heavy circular doors. The use of sheet iron lined wooden chutes should be avoided.



Plenty of Light Here.

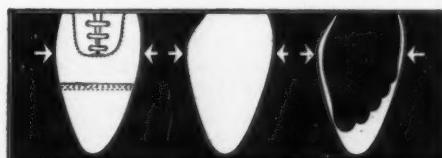
Please refer to THE CANADIAN HOSPITAL when writing.

Walk-Over



Shoe style with corn and bunion comfort

Are you bothered with corns or bunions? Do your feet ache and burn at night when you take off your shoes? Does standing or walking wear you out and tire you in just a little while? Then you need this shoe. It is the Walk-Over Relief. Slip your tired and aching feet down into its roomy comfort. Step. Walk. Then know that the promise of supreme comfort has been at last fulfilled.



RELIEF

In the diagram above the arrows indicate the extra-wide tread of the Walk-Over Relief. From left to right you see the shoe itself, the sole shape, and the position of the foot inside the shoe, with plenty of room for toes, tread, and even corns and bunions.

The Relief is carried in stylish strap patterns as well as boots and Oxfords.

*Write for Footograph Chart
for ordering by mail*



Walk-Over
BOOT SHOP

**290 Yonge Street
TORONTO**

Dumbwaiters.

Where the dumbwaiter travel is not of more than two, or at most three, stories, and where the service is light, hand-operated dumbwaiters are practicable. These installations should have efficient brakes to hold the car at a landing, and the gearing should be practically noiseless. The size of the car should be about 2 feet by 3 feet and 4 feet high, with one hinged shelf. The car can be hardwood or steel.

Where the service is greater than that described for a hand-power lift, automatic electric dumbwaiters should be installed. These are practically miniature automatic elevators and operate similarly, excepting that the banks of operating buttons are placed outside of the shafts. Carrying capacity of the dumbwaiter should be determined by the actual load to be carried.

Vacuum Cleaning Systems.

As cleaning with soap and water is necessary in any event, a vacuum cleaning system in a hospital can be looked upon simply as a valuable adjunct for cleaning rugs, mattresses, upholstery and such other material as cannot be washed. A central plant, piped to form outlets throughout the building, gives the most perfect results, but at a considerable cost of installation. An alternative is to place receptacles for electrically-driven portable vacuum cleaners.

Sterilizing Equipment.

Since the modern methods of sterilization are practically standardized and are accomplished more or less satisfactorily in the general type offered, the hospital's selection should be largely on the basis of utility and maintenance. It should be kept in mind that of all the equipment in the hospital, possibly without exception, the sterilizers are subject to most neglect and abuse. This abuse is not wilful, of course, but, because of the constantly changing personnel and the lack of the mechanical experience needed, competent operation of these fixtures can hardly be expected.

A careful inspection of design, construction and materials usually reveals the merits of a sterilizer. There are more valves and fittings required for the operation of the sterilizers in an average hospital than for any other fixtures or groups of fixtures outside of the power plant. For the complete steam-heated sterilizer equipment of a medium capacity general hospital, say of about 100 beds, there are approximately 150 valves—all potential points of trouble—all subject to unusual performance, and entirely outside of the immediate supervision of the engineer's department.

The selection of the method of heating the sterilizers is naturally governed by local conditions and a consideration of economy. Medium pressure steam (of not less than 35, preferably 50 pounds at the fixture), electricity and gas have had practical demonstrations sufficient to be considered as standard methods. When steam pressure is available at all times, this provides the logical method, but if it is necessary to maintain a high pressure boiler plant especially for the operation of the sterilizers, it is frequently found that electricity or gas will be considerably more economical. A combination of steam and electricity or gas is sometimes desirable, espe-

cially for instrument sterilizers, providing for the use of the substitute when pressure is not available.

The electric method has many advantages over the gas, and can be used frequently to advantage in sections enjoying a low rate per kw. Unfortunately, however, heating by electricity involves a prejudice not altogether justified. It should be considered that the successful operation by either of the two methods involves, to a great extent, the human element. The same neglect that causes an electric heater to burn out will also cause even greater damage to a sterilizer heated by gas—burning dry. The cost of repairs is usually less in an electric fixture than in a gas-heated fixture, for the reason that the damage is localized, in the one case being confined to the replacement of a heater, whereas the damage caused to a gas-heated fixture may mean extensive repairs.

Typical sterilizing equipment required in an average 100-bed general hospital is thus planned:

General Sterilizing Room.

2 dressing sterilizers 16" x 36", with automatic control valves.

16 drums.

1 3-drum stand for each operating room.

1 pair of water sterilizers, 50-gallon capacity each tank, with automatic control valves and with 6-gallon capacity distilled water attachment.

Instrument sterilizers, 9" x 12" x 22" (one for each operating room).

Utensil sterilizers, 20" x 20" x 24", mechanical lift (one for each operating room).

1 saline solution sterilizer.

1 blanket warmer, 20" x 24" x 72".

Maternity Department Sterilizing Room.

1 pair of water sterilizers, 10-gallon capacity each tank. 1 utensil sterilizer, 20" x 20" x 24".

Dressing Rooms.

1 pair of water sterilizers, 6-gallon capacity each tank. 1 instrument sterilizer, electric, 5" x 6" x 16".

Duty Rooms.

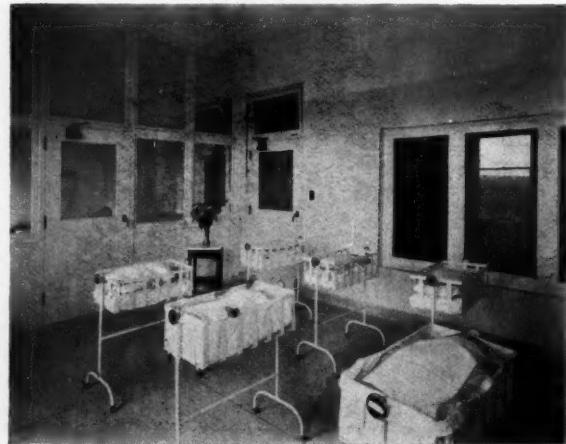
1 utensil sterilizer, 20" x 20" x 24", mechanical lift (one for each ward).

1 instrument sterilizer, electric, 5" x 6" x 16" (one for each ward).

1 blanket and bedpan warmer, 20" x 24" x 72" (one for each ward).

Locker Room and Mattress Storage room (convenient to both).

1 mattress and clothing sterilizer, 36" in diameter by 88" long, steam and formaldehyde—dry heat.



An Attractive Nursery.



The wick of Cellucotton is drawing the fluid against gravity, distributing it throughout the entire wick. The other absorbent becomes wet but a short distance from the surface.

Cellucotton draws fluid *against* gravity! —one of 8 reasons why hospitals find it the most useful absorbent

The capillary action of Cellucotton is greater than that of any other absorbent. Where ordinary cotton acts only as a dam, Cellucotton serves as a wick—drawing any fluid *against* gravity until the dressing is saturated.

ELLUCOTTON was first introduced to hospital usage in 1919. Its safety and efficiency were amply proven during the war years. Almost immediately 450 hospitals adopted it for all types of work.

Today, 2383 hospitals are using it! They have found eight important points of Cellucotton superiority over ordinary absorbents. They use it not only for its great capillary action, but also because—

Cellucotton absorbs from 4 to 8 times more drainage before saturation than most grades of absorbent cotton.

It retains more liquid before leakage takes place.

It absorbs 3 to 5 times as fast as absorbent cotton.

Fluid penetrates to every part of the Cellucotton dressing.

On account of its bulk, it makes more dressings per pound than absorbent cotton.

It is lighter, cooler and more comfortable for the patient.

Its cost is so low as to make it one of the most economical forms of absorbents.

Cellucotton is not sold in bulk only. It is also specially prepared for two specific uses. Because of its absorbency and economy, it is an ideal material for wipes of all kinds. It is specially calendered for this use, giving it necessary firmness with no loss of absorbency. The finished product—Celluwipes—can be obtained in boxes of 400. Easy to use—easy to dispose of—they are more economical than most materials, and can be used for wipes of every variety.

Kotex pads, made of Cellucotton and Curity Absorbent Gauze, possess all the outstanding features of bulk Cellucotton. They are comfortable for the patient, thoroughly absorbent, with a great ability to retain drainage. They present a distinct saving to the hospital in time and material.

The coupon will bring generous samples of Cellucotton products to hospital executives. And when buying, *always insist on genuine Cellucotton.*

LEWIS MANUFACTURING COMPANY
(Division of Kendall Mills, Inc.) WALPOLE, MASS.

Lewis Manufacturing Co., Walpole, Mass.
Please send me, free, samples of Cellucotton Dressings, Celluwipes, Kotex. Also the "Recipe Book" of Cellucotton uses.

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Position _____

Hospital _____

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C. H. 5-26

Comfort, Fit Easy Walking



If you appreciate Easy Comfort in your shoes, as most nurses do, but demand a conservative standard of style as well, you will probably find just what you want in the

Cantilever Shoe

There are trim oxfords and stylish strap pumps.

While not extreme in style, they have won the approval of the women who shop on Fifth Avenue, New York, and in the best stores throughout the country.



The unusual comfort of the Cantilever Shoe is the result of designing and building it on natural lines to fit the foot when walking as well as standing or sitting.

You will especially appreciate its comfort when walking.

The Cantilever flexible arch and other special features support the foot while permitting the freedom of motion which makes walking easy and natural.

Careful personal attention to fitting each customer further ensures this.

The prices figure out less per Month of Service than many shoes of lower grade and price per pair. Besides the Comfort, Cantilever Shoes are an Economy.

MAIL ORDER SERVICE

If it is not convenient for you to visit one of the stores listed below, write to the Toronto branch. Mail orders receive careful attention.

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TORONTO—7½ Queen St. East
HAMILTON—8 John St. North
MONTREAL—Keefer Bldg., St. Catherine St. W.
OTTAWA—241 Slater St., Jackson Bldg.
SAINT JOHN, N.B.—Waterbury & Rising Limited
HALIFAX—Wallace Bros.
SUDSBURY—F. M. Stafford Limited
WINNIPEG—Hudson's Bay Company
SASKATOON—Royal Shoe Store
PORT ARTHUR—McNulty's Limited
REGINA—Yale Shoe, Limited
EDMONTON—Hudson's Bay Company
CALGARY—Hudson's Bay Company
VANCOUVER—Hudson's Bay Company
VICTORIA—Hudson's Bay Company

DIETETICS

The Place of the Dietitian in the Hospital

By HARRIET LEWIS

Department of Household Science,
University of Toronto.

Besides the more obvious duties of a dietitian, such as the planning of meals for the entire staff of the hospital as well as for the patients, and the instruction of the pupil dietitians, student nurses, and patients, there is another equally important duty—namely: the organization and management of the kitchen staff. In any place where it is necessary to have a dietitian, she must be privileged to "reign supreme" over the entire kitchen staff, and her ability to choose and select workers should never be questioned. Likewise, each and every responsibility should be carefully placed so that the question never arises as to whom each worker is directly responsible.

Although the scheme of organization of the hospital kitchen may vary according to the needs of the individual institution and the views of those operating it, the fundamental principles of operation are the same in practically all cases. A form of organization that has worked out very successfully in a great many cases is as follows: The chief or first dietitian is the head over the entire staff. Directly beneath her and directly responsible to her are the two main divisions: (1) the assistant dietitian or the dietitian in charge of the special diets, and (2) the chef. In considering first the assistant dietitian, she has working under her supervision, the diet kitchen workers, and also the pupil dietitians. The latter should also have direct contact with the head dietitian. With regard to the chef and his workers, there are three people who are directly responsible to the chef: the head cook, the person in charge of the dishwashers and the person in charge of the pantry or department from which the coffee, tea, milk, etc., are served. The people who are working under and directly responsible to the head cook are: the porters and utility men, the kitchen helpers, and the first assistant cook. The latter is in charge of the rest of the cooks who in turn have charge of the cooks' helpers.

In the above plan of organization it will be noticed that each worker is directly responsible to some one person and it is necessary that the authority of the persons in charge should not be broken or weakened in any way. This means that all business should be first taken up with the heads of the different departments. This plan has also been carried out successfully, with modifications, in some of the larger resorts and rest homes where the value of the dietitian is recognized.

Please refer to THE CANADIAN HOSPITAL when writing.

New Building Will Add 600 Beds To Vancouver General

Announcement was made at a dinner meeting of the Directors of the Vancouver General Hospital on April 12th, that extensive additions to the present buildings are being planned, and it is expected that construction will start in the near future. Four new buildings are included in the scheme, as well as the remodelling of the structure that has been used for several years by the University of British Columbia.

The remodelled building is to be used as a hospital for tubercular patients. New quarters will be provided for maternity, children's and women's hospitals. A separate building of private wards is also included in the building programme. The actual cost of the scheme has not been computed, but will be known when the committee makes its report, according to Mr. James McVety, Chairman of the Board.

Will Add 600 Beds.

The new building will add 600 beds to the institution. As the military annex and another building on the corner of Twelfth Avenue and Heather Street, which are being used at present, have been condemned, the actual increase in the capacity of the hospital will be about 400 beds.

Mr. McVety stated that all the hospitals of the province were crowded to the doors, and the General Hospital, he said, was about 225 beds short of its needs. It was not because there was a large amount of sickness that more hospital space was needed, he pointed out, but the expansion of hospitals had not been in proportion with the growth of the community.

Minister Visits Hospital.

To obtain first-hand information of the needs of the hospital, Hon. William Sloan, Provincial Secretary, made a tour of inspection during the afternoon.

Mr. Sloan told the meeting that he would do all he could in support of the hospital's expansion programme. On his return to Victoria, he stated, he would confer with his colleagues to determine what assistance could be given by the Provincial Government. He declared that he was heartily in sympathy with the expansion scheme.

That the city could not be given too much credit for its assistance in hospital matters, was the speaker's opinion. He said that British Columbia was fortunate in having taxpayers who were willing to back the needs of its medical institutions, and he was sure that reasonable assistance could be expected from the Legislature.

Mayor Louis D. Taylor stated that he personally favored the Board's plans and would render what assistance he could. Though the city was called on to assist an increasing number of public utilities each year, he thought that the legitimate needs of the hospital would receive reasonable consideration from the ratepayers.

Please refer to THE CANADIAN HOSPITAL when writing.



MARY FRANCES KERN

YOUR TRUSTEES OWE IT TO THE PUBLIC!

Hospitals serve the public. Their destinies are in the hands of the trustees.

The public looks to a hospital for the best in buildings, equipment, service when life and health are at stake. The board owes it to the public to provide these things. Lack of funds is no longer an excuse. MARY FRANCES KERN'S veteran organization is prepared to show the trustees how these funds may be had, and without the payment of commissions.

MARY FRANCES KERN Financial Campaigns

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News of Hospitals and Staffs

*Condensed News of Hospitals and
Allied Institutions from Coast to Coast*

Dr. Williams Heads Medical Society

Woodstock, Ont.—Dr. J. J. Williams, Superintendent of the Ontario Hospital at Woodstock, was elected President of the Oxford County Medical Association.

Preparing Plans for Extension

North Bay, Ont.—Angus & Angus, local architects, are preparing plans for a new wing to the Queen Victoria Memorial Hospital, North Bay, at an estimated cost of \$125,000.

Dr. H. Copeland Goes to Albany Hospital

Montreal—Dr. J. G. Copeland, B.A., born in Cornwall, Ont., who has been assistant superintendent at the Montreal General Hospital since 1923, has been appointed Superintendent of the Albany General Hospital at Albany, N.Y., and has gone there to take over his new position.

Takes Post in Brantford Hospital

Toronto—Leaving the plant of Gunn's Limited, where for two years she has been in charge of welfare work, Mrs. Elizabeth A. Duff was recently presented by the employees of the firm with a sterling silver toilet set, in token of their esteem. Mrs. Duff has resigned her position to take charge of the operating department at the new Brantford General Hospital.

Joseph P. Downey Dead

Orillia, Ont.—Joseph P. Downey, Superintendent of the Ontario Hospital at Orillia, and former member of the Ontario Legislature for Wellington South, died on April 18th at Orillia. Mr. Downey, who was 61 years of age, died from pneumonia, following an attack of throat trouble, which kept him confined to his home for several weeks.

Mr. Downey, who sat in the Legislature for about ten years, was a former editor of the Guelph Herald.

New Hospital Wing Opened

Chapleau, Ont.—On Saturday, April 3rd, the new wing of the Lady Minto Hospital was opened. Mrs. McCall, President of the Ladies' Aid, received the guests, and President Mr. Allan Austin, G. B. Nicholson, M.P., and Geo. Langworthy escorted them through the building. Everyone was delighted with the furnishings and conveniences of the hospital. Miss Sarney is the matron. The attending physicians are Drs. Sheehan, Wilkinson and Chisholm.

Donation for Nurses' Residence

Bowmanville—Although no public announcement has been given out that a new nurses' residence is to be built this summer in connection with the Bowmanville Hospital, Mr. and Mrs. J. D. Storie, Oshawa, waited on Norman S. B. James, President of the Hospital Board, and offered a subscription of \$1,000 toward building funds. This is the first donation received without solicitation to a campaign which, according to present plans, will be launched in May. Mr. and Mrs. Storie have been prominent citizens of the Motor City for many years and previously lived in Bowmanville and Durham county.

Col. I. Leonard Succeeds Late Sir Adam

London, Ont.—Col. Ibbotson Leonard was named President of the London Health Association, the governing body of Queen Alexandra Sanatorium, at the annual meeting of the directors held on April 7th. He succeeds the late Sir Adam Beck. Reports presented indicated that the sanatorium is in a thriving condition financially and is being well managed under the superintendence of Dr. F. H. Pratten.

Dr. Pratten, Superintendent of the Sanatorium, in his annual report stated that in all 690 patients received treatment during the year, an increase of 91 over the previous year. There were 440 new admissions. Incidentally he stated that he now has a waiting list of 17 patients, so great has been the rush accommodation, due, he believes, to the publicity given the sanatorium during the recent memorial fund campaign.

Dr. Paul M. Andrus Receives Award

Ottawa—The Canadian Tuberculosis Association Research Committee has examined the thesis submitted by junior members of the Canadian Sanatorial staffs both for medical work during the year and for laboratory work, and have decided to withhold an award this year for the medical thesis but have recommended the award of a \$250 scholarship for laboratory research to Dr. Paul M. Andrus, of the Queen Alexandra Sanatorium, London, Ont.

The thesis winning this award reported methods of study of pathological conditions of the lung before death and after death by the use of X-rays, which, in conjunction with air inflation of the post-mortem lungs, and the freezing of same, permit involved areas showing shadows, being minutely examined in finality by mounted sections under the microscope.

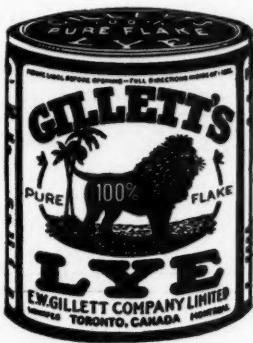
The scholarship is provided by the Canadian Red Cross Society.

Hospital Superintendents

should instruct their Nurses and Domestics
to use

GILLETT'S PURE FLAKE LYE

for disinfecting sinks, closets and drains. It is also ideal for the cleansing of urinals and bed pans—in fact, any vessel that requires disinfecting. Gillett's Flake Lye should always be used for scrubbing hospital bath tubs and operating room floors.

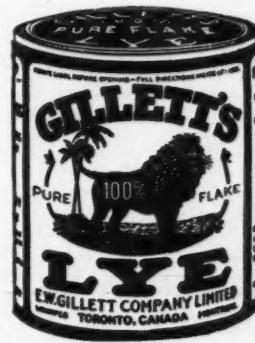


For cleansing and disinfecting, dissolve one teaspoonful of Gillett's Lye in two gallons of water. The fine crystal flakes dissolve instantly in hot or cold water.

Beware of Imitations

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Having advertised in and followed its progress since the first issue, we believe the hospital executives as well as the manufacturers of hospital supplies appreciate your efforts in producing such an excellent Canadian Journal, worthy of the interest and co-operation of every real Canadian.

We Wish You Continued Success.

Sterling Rubber Company Limited

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CANADA



The "STERLING" Trade Mark on Rubber Goods guarantees all that the name implies.

Please refer to THE CANADIAN HOSPITAL when writing.

Takes Post of Acting Matron

Springhill, N.S.—Mrs. C. M. Ryan has returned from Bridgewater to assume the post of Acting Matron of All Saints' Hospital, replacing Miss Grace Smith, who went to Halifax for treatment and who also has been granted leave of absence because of ill health. Mrs. Ryan is a graduate of All Saints' Hospital. Before returning to Springhill she was Matron at Dawson Memorial Hospital, Bridgewater, which post she surrendered to accept duty with her home institution.

New Maternity Wing at Wellesley

Toronto—Construction of a new wing at Wellesley Hospital, Homewood Place, has been decided upon by the Hospital Board. Application has been made at the office of the City Architect at the City Hall for a permit for the new wing, which will cost in the neighborhood of \$100,000. The new building will be of brick and give much-needed additional accommodation at the hospital. Steady growth in the demands upon the hospital space for maternity cases was disclosed at recent meetings of the Board, and it was decided to go ahead with the erection of the new wing. Work will begin almost immediately. Stevens & Lee, architects, are in charge of the construction of the new maternity wing.

Hospital Plans Almost Completed

Windsor—Plans for the new Metropolitan General Hospital here will be forthcoming in about two weeks' time, Dr. Fred Adams, M.O.H. for the Essex Border Board of Health, stated recently.

These plans, Dr. Adams explained, will not be exactly final, but they would be in such shape that in all probability but minor revision would have to be made.

The Hospital Committee has already considered several sets of plans, each of which has been revised at conferences between the architects and the committee, and he said he was confident that the plans now in course of preparation would be in such shape that they could be adopted with possibly some revision.

Women's General Hospital to Expand

Montreal—The Women's Hospital of Montreal, of which Lady Byng is patroness, for fifty-six years the only Women's General Hospital in Canada, recently announced a campaign for \$500,000 for a new, modern, fire-proof building with a capacity of 150 beds, to be erected and opened to the public by May 1st, 1927.

The new hospital will be located in the heart of the city, so as to be readily accessible. The Board of Governors has under consideration a plot of land located at the corner of Closse and Compte streets.

The proposed new hospital will be unique in Canada, and its proponents claim it will open a new era in specialized hospitalization which will successfully combat many deterrents to the public health which have made Montreal's infant mortality rate very high.

Lehn & Fink Establish Canadian Laboratory

Lehn & Fink (Canada) Limited, manufacturers of "Lysol" disinfectant, Pebeco Tooth Paste, Hind's Honey and Almond Cream and Pharmaceutical Specialties, make an announcement in this issue which will be of interest to the medical fraternity throughout the country.

New and modern laboratories with complete manufacturing facilities have been established in Toronto under the capable direction of Mr. Frank J. Reed, who for many years has been associated with the makers of these well known products in England and the United States. "Lysol" disinfectant and the other specialties of this old house are in general use throughout the provinces and are highly regarded by the profession. The new company's laboratories and sales office are located at 9 Davies Avenue, Toronto (8). Mr. Frank J. Reed is General Manager. Stenhouse Limited, 35 St. Francois Xavier Street, Montreal, are associate selling agents.

Keep Nature's Law

To eat for health
Does not take wealth,
But character and brains.
To eat for taste
Makes big the waist,
Plus many aches and pains.

Man dives and flies
And thinks he's wise,
And Boss of all the earth,
But to this hour,
He's not the power
To give a life cell birth.

Keep "Nature's Law,"
Eat ripe and raw
The leaves and seeds and fruit.
Then wear the smile
That's more than style,
Gain health and wealth to boot.

—Frank E. Baker.

Seldom is a life morally wrecked but the grand cause lies in some internal mal-arrangement, some want less of good fortune than of good guidance.—Thomas Carlyle.

It sometimes seems to me that one may regard a man's attitude toward the movement of the birth-rate as a test of his relationship to Nature, and a criterion of his right to live in the world. There is nothing so natural as natality, nothing that is so intimately connected with the physical and psychic mystery of life.—Havelock Ellis.

How I wish that in this little life of ours we could acquire a philosophy by which we could be quite sure about the things we believe ourselves, without also acquiring the habit of vilifying and abusing the faith of every other man who holds to some other creed! How I wish it were possible that spires might point to God and not to man!—Thomas R. Marshall.

THE Hospital Buyers' Directory

A Directory of Building Specialties, Equipment and Supplies for Hospital Executives, Building Committees and Purchasing Departments

For Convenient Reference the Listings are Divided into Seven Sections, as follows :

SECTION A

Building Materials (including Paints and Varnishes)

SECTION C

Office Equipment, General Equipment, Furnishings and Supplies.

SECTION E

Laundry Equipment and Supplies.

SECTION B

Building Equipment

SECTION D

Clinical and Scientific Equipment and Supplies.

SECTION F

Food Service Equipment, Utensils and Supplies.

SECTION G

Foods and Beverages.

SECTION A.

Building Materials

INCLUDING PAINTS AND VARNISHES

ACOUSTICAL MATERIALS

Canadian Johns-Manville Co., Ltd., Toronto.
Celetox Company, Chicago.
Fibrelite Company, Detroit, Mich.
Stevens Sound-Proofing Co., Chicago.

ALUMINUM (Sheet)

Aluminum Company of Canada, Ltd., Toronto.
British Aluminium Co., Toronto.

BOARD, GYPSUM

Ebsary Gypsum Co., Limited, Caledonia, Ont.
Ontario Gypsum Co., Ltd., Paris, Ont.

CEILINGS, METAL

Barry Sheet Metal Co., Ltd., Edmonton, Alta.
Campbell & Grill, Vancouver, B.C.
Canadian Rogers Sheet Metal & Roofing, Ltd., Winnipeg, Man.
Galt Art Metal Co., Ltd., Galt, Ont.
Metal Shingle & Siding Co., Ltd., Preston, Ont.
Metallic Roofing Co. of Canada, Ltd., Toronto, Ont.
McFarlane-Douglas Co., Ltd., Ottawa, Ont.
Ormsby, A. B., Co., Ltd., Toronto, Ont.
Pedlar People, Limited, Oshawa, Ont.
Western Steel Products, Ltd., Winnipeg, Man.
Wright, J. W., Winnipeg, Man.

CEILINGS, ORNAMENTAL GLASS

McCausland, Robert, Ltd., Toronto, Ont.

CONDUIT, ELECTRICAL

Canadian General Electric Co., Ltd., Toronto.
Canadian Triangle Conduit Co., Ltd., Toronto.
Conduits Limited, Toronto.

CORK BOARD

Armstrong Cork & Insulation Co., Ltd., Toronto.

DOORS, METAL

Metal Shingle & Siding Co., Ltd., Preston, Ont.
Ormsby, A. B., Co., Ltd., Toronto, Ont.
Western Steel Products, Ltd., Winnipeg, Man.

FIRE ESCAPES

Architectural Bronze & Iron Works, Toronto.
Dennis Wire & Iron Works Co., Ltd., London, Ont.
Dominion Bronze & Iron, Ltd., Winnipeg, Man.
McGregor & McIntyre, Ltd., Toronto, Ont.
Ormsby, A. B., Co., Ltd., Toronto, Ont.
Reid & Brown Structural Steel & Iron Works, Ltd.,
Toronto, Ont.
Roelofson Elevator Works, Galt, Ont.
Vancouver Engineering Works, Ltd., Vancouver, B.C.
Watson, John & Son, of Montreal, Ltd., Montreal, Que.

FIRE PROTECTION APPARATUS

B. H. Montgomery Hose Reel Co., Toronto, Ont.

FLOORING**Marble**

Hodge Marble Co., Ltd., Toronto, Ont.
Hooper's Marble & Granite Co., Ltd., Winnipeg, Man.
Italian Mosaic Marble Co., of Canada, Ltd., Toronto, Ont.
Marriott Marble Co., Montreal, Que.
Ontario Marble Co., Ltd., Peterboro, Ont.

Terrazzo

Bilodeau, Ign., Limitee, Quebec, Que.
Memorial Marble & Tile Co., Ltd., Winnipeg, Man.
Pizzigalli Terrazzo Tile Mfg. Co., Montreal, Que.
Smith Marble and Construction Co., Ltd., Montreal, Que.

Cork Composition

Dominion Oilcloth & Linoleum Co., Ltd., Montreal.
Armstrong Cork & Insulation Co., Ltd., Toronto.

Rubber

Canadian Consolidated Rubber Co., Ltd., Montreal, Que.
Canadian I. T. S. Rubber Co., Ltd., Toronto, Ont.
Dunlop Tire & Rubber Goods Co., Ltd., Toronto.
Gutta Percha & Rubber, Ltd., Toronto, Ont.

Linoleum, Battleship

Dominion Oilcloth & Linoleum Co., Ltd., Montreal.

Oil Cloth

Dominion Oilcloth & Linoleum Co., Ltd., Montreal.

HARDWARE, BUILDERS

Belleville Hardware & Lock Mfg. Co., Ltd., Belleville, Ont.
Canada Foundries & Forgings, Ltd., Brockville, Ont.
Dominion Brass Products, Ltd., Toronto, Ont.
Macdonald Wire Goods Company, Ltd., Drummondville, Que.
Mahon, E. A., Jr., Montreal, Que.
McLean & Powell Iron Works, Vancouver, B.C.
Montreal Hardware Mfg. Co., Ltd., Montreal, Que.
National Hardware Mfg. Co., Ltd., Orillia, Ont.
Peterborough Lock Mfg. Co., Ltd., Peterborough, Ont.
Richards-Wilcox Canadian Co., Ltd., London, Ont.
Slater, N., Co., Limited, Hamilton, Ont.
Stanley Works of Canada, Ltd., Hamilton, Ont.
Stratford Brass Co., Ltd., Stratford, Ont.
Taylor-Forbes Co., Ltd., Guelph, Ont.
Toronto Lock Mfg. Co., Toronto, Ont.
Winnipeg Brass & Fixture Co., Winnipeg, Man.
Yale & Towne Mfg. Co., St. Catharines, Ont.

INSULATION**Cold Storage and Refrigeration**

Armstrong Cork & Insulation Co., Ltd., Toronto.
Celotex Company, Chicago.
Canadian Johns-Manville Co., Ltd., Toronto.

METAL**Ornamental Work**

Architectural Bronze & Iron Works, Toronto.
Canada Wire & Iron Goods Co., Hamilton, Ont.
Galt Art Metal Co., Ltd., Galt, Ont.
George B. Meadows Co., Ltd., Toronto, Ont.

MONEL METAL FOR FABRICATION

International Nickel Co., New York.

PAINT**Acid Proof**

Argus Mfg. Co. (Canada), Ltd., Toronto, Ont.
Barrett Co., Limited, Toronto, Ont.
Brandram-Henderson, Ltd., Montreal, Que.
British America Paint Co., Ltd., Victoria, B.C.
Dominion Paint Works, Ltd., Walkerville, Ont.
International Varnish Co., Ltd., Toronto, Ont.
Ottawa Paint Works, Ltd., Ottawa, Ont.
Ruberoid Co., Ltd., Montreal, Que.
Sherwin-Williams Co. of Canada, Ltd., Montreal.
Stephens, G. F., & Co., Ltd., Winnipeg, Man.

Asphalt

Brandram-Henderson, Ltd., Montreal, Que.
Dominion Paint Works, Ltd., Walkerville, Ont.
International Varnish Co., Ltd., Toronto, Ont.
Lowe Bros., Co., Ltd., Toronto, Ont.

Flat Wall

Brandram-Henderson, Ltd., Montreal, Que.
British America Paint Co., Ltd., Victoria, B.C.
Consolidated Paint & Varnish Co., Ltd., Winnipeg, Man.
Dominion Paint Works, Ltd., Walkerville, Ont.
Herbert Paint & Varnish Co., Ltd., Calgary, Alta.
Imperial Varnish & Color Co., Ltd., Toronto.
International Varnish Co., Ltd., Toronto.
Langmuir, James, Co., Ltd., Oakville, Ont.
Lowe Bros. Co., Ltd., Toronto, Ont.
Muirhead, A., Co., Ltd., Toronto, Ont.
Murphy Varnish Co. of Canada, Ltd., Montreal.
Ottawa Paint Works, Ltd., Ottawa, Ont.
Sanderson Pearcy Co., Ltd., Toronto, Ont.
Sherwin-Williams Co. of Canada, Ltd., Montreal, Que.
Stephens, G. F., & Co., Ltd., Winnipeg, Man.

Gold and Aluminum

Brandram-Henderson, Ltd., Montreal, Que.
British America Paint Co., Ltd., Victoria, B.C.
Canadian Bronze Powder Works, Ltd., Montreal.
Imperial Varnish & Color Co., Ltd., Toronto.
International Varnish Co., Ltd., Toronto, Ont.
Lowe Bros. Co., Ltd., Toronto, Ont.
Moore, Benjamin & Co., Ltd., Toronto, Ont.
Norwesco of Canada, Ltd., Toronto, Ont.
Ottawa Paint Works, Ltd., Ottawa, Ont.
Ramsay A., & Son, Co., Montreal, Que.
Sanderson Pearcy & Co., Ltd., Toronto, Ont.
Sherwin-Williams Co. of Canada, Ltd., Montreal, Que.
Standard Paint & Varnish Co., Ltd., Windsor, Ont.
Staneland Co., Ltd., Victoria, B.C.
Stephens, G. F., & Co., Ltd., Winnipeg, Man.



View in St. Joseph's Hospital, Hamilton, Ont., Showing Dominion Battleship Linoleum Floor

Appreciated by Patients, Staff and Visitors

Dominion Battleship Linoleum is permanent, quiet, sanitary. Its firm, smooth, non-absorbent surface affords no hiding place for dirt or germs, and is easy to clean and keep clean. When properly laid with waterproof cement,

DOMINION Battleship Linoleum

becomes part of the building itself. It cannot wear out. Its resilience takes the noise and fatigue out of walking. Many of Canada's leading hospitals have Dominion Battleship Linoleum floors, which, in addition to their other advantages, need only an occasional waxing by way of upkeep.

Made in AAA, AA and A qualities in a wide range of harmonious colorings. Write us for free samples and literature.

Installed by all large Departmental and House Furnishing Stores. Samples and Literature on request.



Dominion Oilcloth & Linoleum Co. Limited
MONTREAL

Ready Mixed

Brandram-Henderson, Ltd., Montreal, Que.
 British America Paint Co., Ltd., Victoria, B.C.
 Canada Paint Co., Ltd., Montreal.
 Crown Paint Co., Ltd., Vancouver.
 Dominion Paint Works, Ltd., Walkerville, Ont.
 The Glidden Co., Ltd., Toronto.
 Imperial Color & Varnish Co., Ltd., Toronto.
 International Varnish Co., Ltd., Toronto, Ont.
 R. C. Jamieson & Co., Ltd., Montreal.
 Lowe Bros., Ltd., Toronto.
 Martin-Senour, Ltd., Montreal.
 McArthur Irwin, Ltd., Montreal.
 Benjamin Moore & Co., Ltd., Toronto.
 Ottawa Paint Works, Ltd., Ottawa.
 A. Ramsay & Son Co., Montreal.
 Sanderson-Pearcy & Co., Ltd., Toronto.
 Scarfe & Co., Ltd., Brantford.
 Sherwin-Williams Co. of Canada, Ltd., Montreal.
 Standard Paint & Varnish Co., Ltd., Windsor.
 G. F. Stephens & Co., Ltd., Winnipeg.

PARTITIONS**Fireproof**

Douglas Bros., Ltd., Toronto.
 McFarlane-Douglas Co., Ltd., Ottawa.
 Metal Shingle & Siding Co., Ltd., Preston.
 A. B. Ormsby Co., Ltd., Toronto.

Wire

Architectural Bronze & Iron Works, Toronto.
 Canada Wire & Iron Goods Co., Hamilton.
 Dennis Wire & Iron Works Co., Ltd., London.
 Frost Steel & Wire Co., Ltd., Hamilton.
 B. Greening Wire Co., Ltd., Hamilton.
 Johnson Wire Works, Ltd., Montreal.
 Geo. B. Meadows, Ltd., Toronto.
 Rice Wire & Metal Goods, Toronto.

PLASTER**Cement Wall**

Alabastine Co., Ltd., Paris.
 Manitoba Gypsum Co., Ltd., Winnipeg.
 Ontario Gypsum Co., Ltd., Paris.

Finishing

Alabastine Co., Ltd., Paris.
 Iona Gypsum Products, Ltd., Sydney, N.S.
 Manitoba Gypsum Co., Ltd., Winnipeg.
 Ontario Gypsum Co., Ltd., Paris.
 Toronto Builders Supply Co., Ltd., Toronto.

ROOFING**Asbestos**

J. P. Abel-Fortin, Ltd., Montreal.
 Asbestos Mfg. Co., Ltd., Quebec.
 Asbestos Products Co. of Canada, Montreal.
 Canadian Johns-Manville Co., Ltd., Toronto.
 Globe Builders Corporation, Ltd., Montreal.

Galvanized, Iron and Copper

Canadian Rogers Sheet Metal and Roofing, Ltd.,
 Winnipeg
 Consolidated Products, Ltd., Montreal.
 Thos. Davidson Mfg. Co., Ltd., Montreal.
 W. E. Dillon Co., Ltd., Toronto.
 Douglas Bros. Co., Ltd., Montreal.
 Galt Art Metal Co., Ltd., Galt.
 Macdonald Bros. Sheet Metal & Roofing Co., Ltd.,
 Winnipeg.
 McFarlane-Douglas Co., Ltd., Ottawa.
 Metal Shingle & Siding Co., Ltd., Preston.
 Metallic Roofing Co. of Canada, Ltd., Toronto.
 A. B. Ormsby Co., Ltd., Toronto.
 Pedlar People Ltd., Oshawa.
 John E. Riddell & Son, Hamilton.
 Roofers Supply Co., Ltd., Toronto.
 Wheeler & Bain, Ltd., Toronto.

Asphalt

Barrett Co., Ltd., Toronto.
 Bird & Son, Ltd., Hamilton.
 Brantford Roofing Co., Ltd., Brantford.
 Rubberoid.
 Rubberoid Co., Ltd., Montreal.

SHINGLES**Slate**

Davis Slate and Mfg. Co. of Canada, Ltd., Toronto.
 Ontario Marble Co., Ltd., Peterborough.

STAIR TREADS**Metal**

Canada Metal Co., Ltd., Toronto.
 Darling Bros., Ltd., Montreal.
 John Watson & Son of Montreal, Ltd., Montreal.

Rubber

Canadian Consolidated Rubber Co., Ltd., Montreal.
 Canadian I. T. S. Rubber Co., Ltd., Toronto.
 Dunlop Tire & Rubber Goods Co., Ltd., Toronto.
 Gutta Percha & Rubber Limited, Toronto.
 K. & S. Tire & Rubber Goods, Ltd., Toronto.

SHELVING**Metallic**

Brantford Oven & Rack Co., Ltd., Brantford.
 Office Specialty Mfg. Co., Ltd., Newmarket.
 Dennis Wire & Iron Works, Ltd., London.
 Steel Equipment Co., Ltd., Ottawa.

TERRA COTTA

Montreal Terra Cotta Co., Ltd., Montreal.
 Grimsby Brick & Tile Co., Grimsby, Ont.
 Merkleys Limited, Ottawa.
 National Fireproofing Co. of Canada, Ltd., Toronto.

VARNISH**Floor and Woodwork**

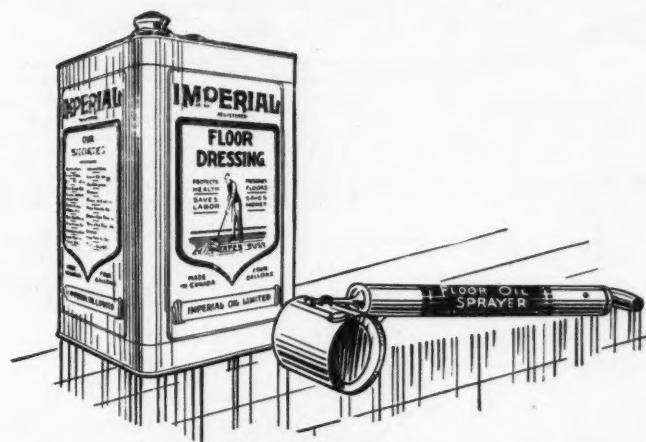
Ault & Wiborg Co. of Canada, Ltd., Toronto.
 Berry Bros., Walkerville.
 Brandram-Henderson, Limited, Montreal.
 British America Paint Co., Victoria.
 Canada Paint Co., Limited, Montreal and Winnipeg.
 Consolidated Paint & Varnish Co., Ltd., Winnipeg.
 Dominion Paint Works, Ltd., Walkerville, Ont.
 Flint Paint & Varnish, Ltd., Toronto.
 Glidden Co., Ltd., Toronto.
 Herbert Paint & Varnish Co., Ltd., Calgary.
 Holland Varnish Co., Ltd., Montreal.
 Imperial Varnish Co., Ltd., Toronto.
 International Varnish Co., Ltd., Toronto.
 Johnson, S. C., & Son, Ltd., Brantford.
 Langmuir, James, Co., Ltd., Oakville, Ont.
 Lowe Bros., Co., Ltd., Toronto.
 Martin-Senour Co., Ltd., Montreal.
 Murphy Varnish Co. of Canada, Ltd., Montreal.
 Ottawa Paint Works, Ltd., Ottawa.
 Penfound Varnish Co., Toronto, Ont.
 Ramsay, A., & Son, Co., Montreal.
 Sanderson-Pearcy & Co., Ltd., Toronto.
 Scarfe & Co., Ltd., Brantford.
 Sherwin-Williams Co. of Canada, Limited, Montreal.
 Standard Paint & Varnish Co., Ltd., Windsor.

VENTILATING APPARATUS

Canadian Blower & Forge Co., Ltd., Kitchener, Ont.
 Lord & Burnham Co., Ltd., St. Catharines.
 Sheldons Limited, Galt.

WEATHERSTRIPS

Chamberlain Metal Weatherstrip Co., Ltd., Kingsville,
 Ont.
 Higgin Mfg. Co., Toronto.
 Wm. Pearce Co., Ltd., Hamilton.
 Swan Mfg. Co., Winnipeg.
 Window Strip & Supply Co., Montreal.



Floors Reflect the Care given them

FLOORS that have been treated with Imperial Floor Dressing can be noticed at once. Their appearance is clean and fresh. Imperial Floor Dressing improves the quality of floors and creates a wear-resisting surface. Checking and splintering are eliminated. Objectionable odors or gummy residues are unknown.

Imperial Floor Dressing is economical — one gallon treats upwards of 400 square feet and a single application lasts for weeks.

The Imperial salesman will be glad to give full particulars about Imperial Floor Dressing and our special equipment for economical and easy application.

IMPERIAL OIL LIMITED

Branches in all cities



*"Imperial Ioco Liquid
Gloss Renews Lustre
on Chairs and Desks"*

I.O.L. 574

REFINITE

RIVAL OF THE CLOUDS
TRADE MARK

NATURE'S WATER SOFTENER

*Refinite Water Softeners Installed in
Dominion Government Westminster
Hospital, London, Ontario*



East Wing, Westminster Hospital, London, Ontario

Canadian Hospitals
Equipped With
Refinite:

Central Alberta
Sanatorium, Keith, Alta.
Misericordia Hospital,
Edmonton, Alta.
Saskatchewan Sanatorium,
Fort Qu'Appelle, Sask.
Sask. Provincial Hospital,
North Battleford, Sask.
Providence Hospital,
Moose Jaw, Sask.
Regina General Hospital,
Regina, Sask.
Westminster Hospital,
London, Ont.
Weyburn Mental Hospital,
Weyburn, Sask.
Willett Hospital,
Paris, Ont.

The installation of Water Softeners in this institution was made after a thorough investigation of the advantages of using soft water for various purposes in the Hospital. The soft water here is used in the laundry, boilers and domestic hot water system. A saving of 50% in wash room supplies, 30% in linen replacement costs and the ability to turn out a much better grade of work has been made possible in the laundry by using soft water.

The soft water is also preventing the formation of scale in the boilers, heaters and hot water piping, thereby effecting a saving in fuel, compound, repairs and replacements.

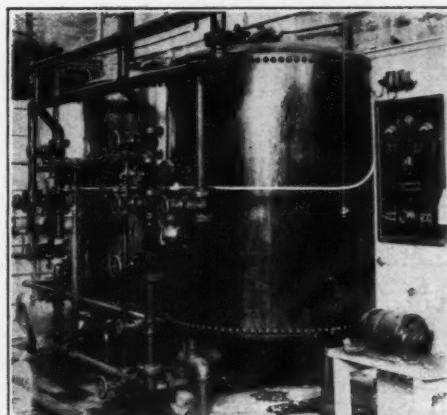
For domestic use the soft water is promoting convenience and comfort for the patients.

Refinite is the choice of the Dominion Government. Let it be your choice when installing a Water Softener.

Write for Full Particulars

**The Refinite Company
of Canada, Limited**

Continental Life Building, Toronto



Two 60" Refinite Units installed at Westminster. Capacity, 40,000 l. G. every 4 hours. Regeneration period, $\frac{1}{2}$ hour. Equipped with Refinite Rapid Mineral, Rapid Regenerator and Alarm Type Meters.

LIGHTING SYSTEMS, COMPLETE

Canadian Fairbanks-Morse Co., Ltd., Montreal.
Delco Light Co. of Canada, Ltd., Toronto.

TELEPHONES, INTERCOMMUNICATING

Canadian Telephone & Supplies, Ltd., Toronto.
Northern Electric Co., Ltd., Montreal.
Stromberg-Carlson Telephone Mfg. Co. of Canada,
Ltd., Toronto.

ELEVATORS, ELECTRIC

Otis-Fensom Elevator Co., Ltd., Toronto.
Turnbull Elevator Co., Ltd., Toronto.

ELEVATORS, HAND

Otis-Fensom Elevator Co., Ltd., Toronto.
F. Mitchell & Sons, Hamilton.
John Turner & Son, Toronto.

FIRE PROTECTION**Automatic Sprinklers**

Automatic Sprinkler Co. of Canada, Ltd., Montreal.
Grinnell Co. of Canada, Ltd., Toronto.
W. J. McGuire, Limited, Toronto.

Rockwood Sprinkler Co. of Canada, Ltd., Montreal.

Fire Extinguishers

Booth-Coulter Copper & Brass Co., Ltd., Toronto.
Foamite-Chilts of Canada, Ltd., Toronto.
Pyrene Mfg. Co. of Canada, Ltd., Toronto.

Special Apparatus

B. H. Montgomery Hose Reel Co., Toronto.

HEATING AND VENTILATING**AIR CONDITIONING SYSTEMS**

Linde Canadian Refrigeration Co., Ltd., Montreal.
B. F. Sturtevant Co. of Canada, Ltd., Galt.

BOILERS

Babcock, Wilcox & Goldie-McCulloch, Ltd., Galt.
Canadian Allis Chalmers, Toronto.
Gurney Foundry Co., Ltd., Toronto.
Waterous Engine Works Co., Ltd., Brantford.
John Inglis Co., Ltd., Toronto.
Pease Foundry Co., Ltd., Toronto.
Spencer Heater Co. of Canada, Ltd., Toronto.
Taylor-Forbes Co., Ltd., Guelph.

RADIATORS

Dominion Radiator & Boiler Co., Ltd., Toronto.
Gurney Foundry Co., Ltd., Toronto.
King, Warden, Limited, Montreal.
Pease Foundry Co., Ltd., Toronto.
Taylor-Forbes Co., Ltd., Guelph.

STEAM SPECIALTIES

C. A. Dunham Co., Ltd., Toronto.
Jenkins Bros., Ltd., Montreal.
Penberthy Injector Co., Ltd., Windsor.

INCINERATORS

Engineering & Machine Works of Canada, Ltd., St. Catharines.
Wm. Hamilton Co., Ltd., Peterborough.
MacKinnon Steel Co., Ltd., Sherbrooke.

LIGHTING EQUIPMENT**FIXTURES, ELECTRICAL**

W. H. Banfield & Sons, Toronto.
Robt. Mitchell Co., Ltd., Montreal.
Jas. Morrison Brass Mfg. Co., Ltd., Toronto.
Standard Bronze Co., Ltd., Toronto.
Tallman Brass & Metal, Ltd., Hamilton.

LAMPS, INCANDESCENT

Canadian General Electric Co., Ltd., Toronto.
Canadian Laco Lamps, Ltd., Montreal.
Canadian Westinghouse Co., Ltd., Hamilton.
Dalyte Electric, Ltd., Guelph.
Solex Company, Ltd., Montreal.

LADDERS

McFarlane Mfg. Co., Ltd., Toronto.
Stratford Mfg. Co., Ltd., Stratford.

LOCKERS, STEEL

Metal Craft Co., Ltd., Grimsby.
Dennis Wire & Iron Goods Co., Ltd., London.
Dominion Steel Equipment Co., Toronto.
Geo. B. Meadows, Ltd., Toronto.
Steel Equipment Co., Ltd., Ottawa.

PLUMBING EQUIPMENT**DRINKING FOUNTAINS**

Architectural Bronze & Iron Works, Toronto.
Crane Limited, Montreal.
Mueller Limited, Sarnia.
Port Hope Sanitary Mfg. Co., Ltd., Toronto.

SHOWERS, SINKS, URINALS

Crane Limited, Montreal.
Purdy-Mansell, Ltd., Toronto.
James Robertson Co., Ltd., Toronto.
Standard Sanitary Mfg. Co., Ltd., Toronto.
Port Hope Sanitary Mfg. Co., Ltd., Port Hope, Ont.

REFRIGERATION**REFRIGERATING MACHINERY**

Canadian Ice Machine Co., Ltd., Toronto.
Delco Light Co. of Canada, Ltd., Toronto.
Jack Frost Ice Machine Co., Ltd., Toronto.
Keith Electric Refrigerator Co., Ltd., Toronto.
Kelvinator Co. of Canada, Toronto.
Linde Canadian Refrigeration Co., Ltd., Montreal.

REFRIGERATORS

John Hillock & Co., Ltd., Toronto.
Canadian Jewett Refrigerator Co., Bridgeburg, Ont.
James Davidson's Sons, Ottawa.
Thos. Davidson Mfg. Co., Ltd., Montreal.
Eureka Mfg. Co., Ltd., Owen Sound.
Fletcher Mfg. Co., Ltd., Toronto.
Linde Canadian Refrigeration Co., Ltd., Montreal.
Sanderson-Harold Co., Ltd., Paris, Ont.

SCREENS

Door, Porch, Window
Aluminum Bronze Screen Co., Toronto.
B. Greening Wire Co., Ltd., Hamilton.
Ham Brothers Limited, Brantford.
Higgin Mfg. Co., Toronto.

STERILIZERS

Castle, Wilmot Company, Rochester.
American Sterilizer Co., Erie, Pa.
Barnstead Mfg. Co., Boston.
Kny-Scheerer Corporation of America, New York.
Scanlan-Morris Company, Madison, Wis.
Bramhall Deane Co., New York.

STILLS, WATER

Castle, Wilmot Company, Rochester.
Barnstead Mfg. Co., Boston.
Barnstead Still & Sterilizing Co., Inc., Boston.
Kny-Scheerer Corporation of America, New York.

VACUUM CLEANERS

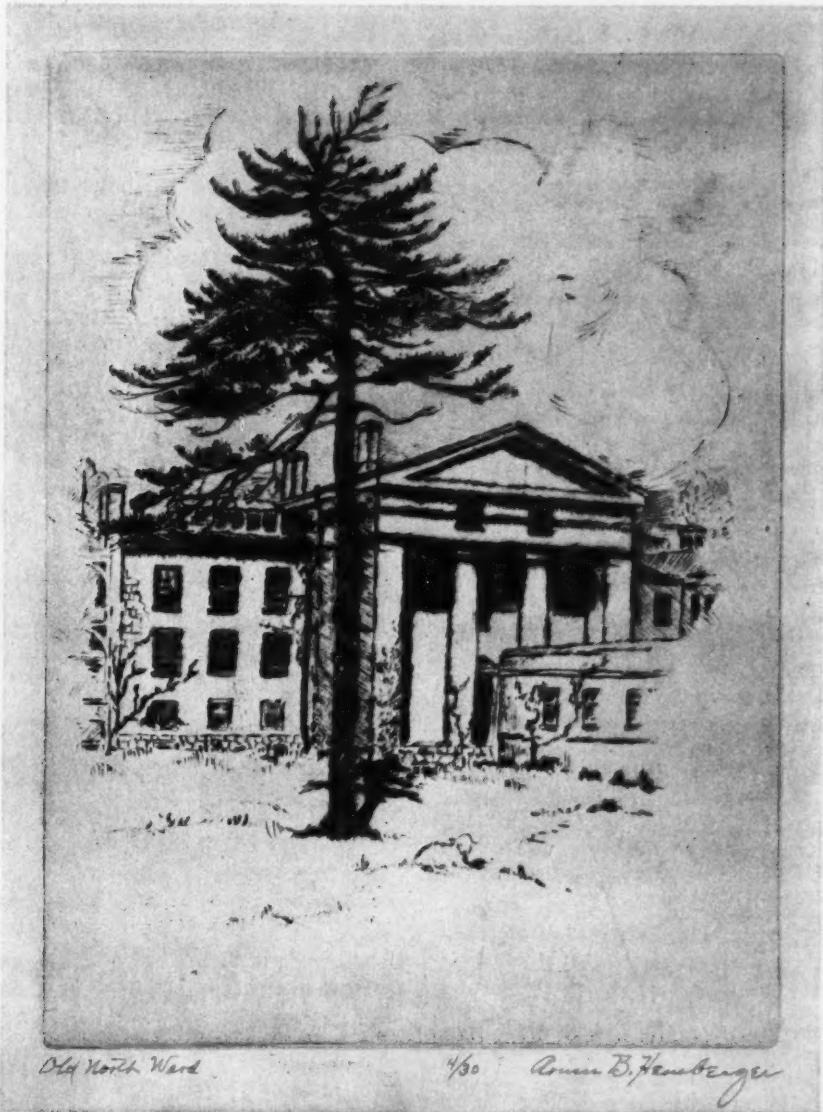
Stationary
B. F. Sturtevant Co. of Canada, Ltd., Galt.

WATER FILTERS

Refinite Co. of Canada, Ltd., Toronto.

WATER SOFTENERS

Refinite Co. of Canada, Ltd., Toronto.
Canadian Allis-Chalmers, Ltd., Toronto.
Permitut Co., New York.



Old North Ward

450 *Russell B. Hensberger*

NEW HAVEN HOSPITAL

Old North Ward

A FAMOUS HOSPITAL WHERE D&G SUTURES ARE USED

Kalmerid Catgut

GERMICIDAL. Exerts a bactericidal action in the suture tract. Supersedes the older unstable iodized sutures. Impregnated with the double iodine compound, potassium-mercuric-iodide.[†]



The boilable grade is unusually flexible for boilable catgut; the non-boilable grade is extremely flexible.

TWO VARIETIES

BOILABLE*

NO.	NON-BOILABLE
1205	PLAIN CATGUT.....1405
1225	10-DAY CHROMIC.....1425
1245	20-DAY CHROMIC.....1445
1285	40-DAY CHROMIC.....1485

Sizes: 000..00..0..1..2..3..4

Approximately 60 inches in each tube

Package of 12 tubes of a size....\$ 3.00
Gross or more, net per gross..... 28.80

Claustro-Thermal Catgut

A SEPTIC—not germicidal. For surgeons who prefer an inert suture, unimpregnated with any bactericidal substance. Sterilized by heat in cumol, after the tubes are sealed, at 165° C.—329° F. Boilable.* Unusually flexible for boilable catgut.



NO.	PLAIN CATGUT
105	10-DAY CHROMIC CATGUT
125	20-DAY CHROMIC CATGUT
145	40-DAY CHROMIC CATGUT

Sizes: 000..00..0..1..2..3..4

Approximately 60 inches in each tube

Package of 12 tubes of a size....\$ 3.00
Gross or more, net per gross..... 28.80



Testing the strength and elasticity of D&G Sutures

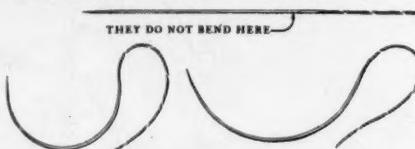
*For sterilizing the exterior of tubes preliminary to operating, not only may they be boiled but they even may be autoclaved up to thirty pounds pressure, any number of times, without the slightest impairment of the sutures.

Carriage paid anywhere in the world

Atraumatic Needles

FOR GASTRO-INTESTINAL suturing and for all membranes where minimized suture trauma is desirable. Integrally affixed to 20-day Kalmerid catgut. Boilable.*

Experimental evidence has proven 20-day chromic catgut the most suitable for gastro-intestinal suturing. It has been found that gastric wounds are fully healed within 12 days, and intestinal wounds at 16 days. At these periods the 20-day catgut (regardless of size) still retains, respectively, 60 per cent and 30 per cent of its initial strength.



STRAIGHT NEEDLES ARE IN ROUND TUBES



CURVED NEEDLES ARE IN FLAT TUBES

NO.	INCHES IN TUBE	DOZEN
1341..STRAIGHT NEEDLE.....	28.....	\$3.00
1342..Two STRAIGHT NEEDLES...36.....	3.60	
1343.. $\frac{3}{8}$ -CIRCLE NEEDLE.....28.....	3.60	
1345.. $\frac{1}{2}$ -CIRCLE NEEDLE.....28.....	3.60	
Gross, net, \$28.80 and \$34.56 respectively		

Sizes: 0 and 1

Packages of 12 tubes of one kind and size

Kangaroo Tendons

GERMICIDAL, being impregnated with potassium-mercuric-iodide.[†] Chromicized to resist absorption in fascia or in tendon for approximately 30 days. The non-boilable grade is extremely flexible.



NO.	Non-Boilable Grade
370.....	*Boilable Grade

Sizes: 0..2..4..6..8..16..24

Each tube contains one tendon

Lengths vary from 12 to 20 inches

Package of 12 tubes of a size....\$ 3.00
Gross or more, net per gross..... 28.80

Non-Absorbable Sutures



NO.	INCHES IN TUBE	SIZES
350..CELLULOID-LINEN.....	60.....	00, 0
360..HORSEHAIR.....	168.....	00
390..WHITE SILKWORM GUT..	84.....	00, 0, 1
400..BLACK SILKWORM GUT..	84.....	00, 0, 1
450..WHITE TWISTED SILK..	60.....	00 TO 3
460..BLACK TWISTED SILK..	60.....	00, 0, 2
480..WHITE BRAIDED SILK..	60.....	00, 0, 2, 4
490..BLACK BRAIDED SILK..	60.....	00, 1, 4

BOILABLE

Package of 12 tubes of a size.... \$ 3.00
Gross or more, net per gross.... 28.80

Short Sutures for Minor Surgery



NO.	INCHES IN TUBE	SIZES
802..PLAIN KALMERID CATGUT..	20.00	0, 1, 2, 3
812..10-DAY KALMERID "	20.00	0, 1, 2, 3
822..20-DAY KALMERID "	20.00	0, 1, 2, 3
862..HORSEHAIR.....	56.....	00
872..WHITE SILKWORM GUT..	28.....	0
882..WHITE TWISTED SILK.....	20.....	00, 0, 2
892..UMBILICAL TAPE.....	24.....	1/8-IN. WIDE

BOILABLE

Package of 12 tubes of a size.... \$ 1.50
Gross or more, net per gross.... 14.40

Emergency Sutures with Needles

UNIVERSAL NEEDLE FOR SKIN, MUSCLE, OR TENDON



NO.	INCHES IN TUBE	SIZES
904..PLAIN KALMERID CATGUT..	20.00	0, 1, 2, 3
914..10-DAY KALMERID "	20.00	0, 1, 2, 3
924..20-DAY KALMERID "	20.00	0, 1, 2, 3
964..HORSEHAIR.....	56.....	00
974..WHITE SILKWORM GUT..	28.....	0
984..WHITE TWISTED SILK.....	20.....	00, 0, 2

BOILABLE

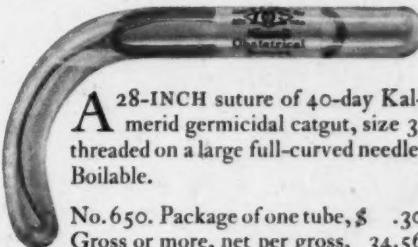
Package of 12 tubes of a size.... \$ 2.40
Gross or more, net per gross.... 23.04

The ash of D&G Sutures is assayed to make sure that no traces remain of uncombined chromium nor of other residues of the chromicizing process.



Obstetrical Sutures

FOR IMMEDIATE REPAIR OF PERINEAL LACERATIONS



A 28-INCH suture of 40-day Kalmerid germicidal catgut, size 3, threaded on a large full-curved needle. Boilable.

No. 650. Package of one tube, \$.30
Gross or more, net per gross, 34.56

Circumcision Sutures



A 28-INCH suture of Kalmerid germicidal catgut, plain, size 00, threaded on a small full-curved needle. Boilable.

No. 600. Package of 12 tubes.... \$ 3.00
Gross or more, net per gross.... 28.80

Universal Suture Sizes

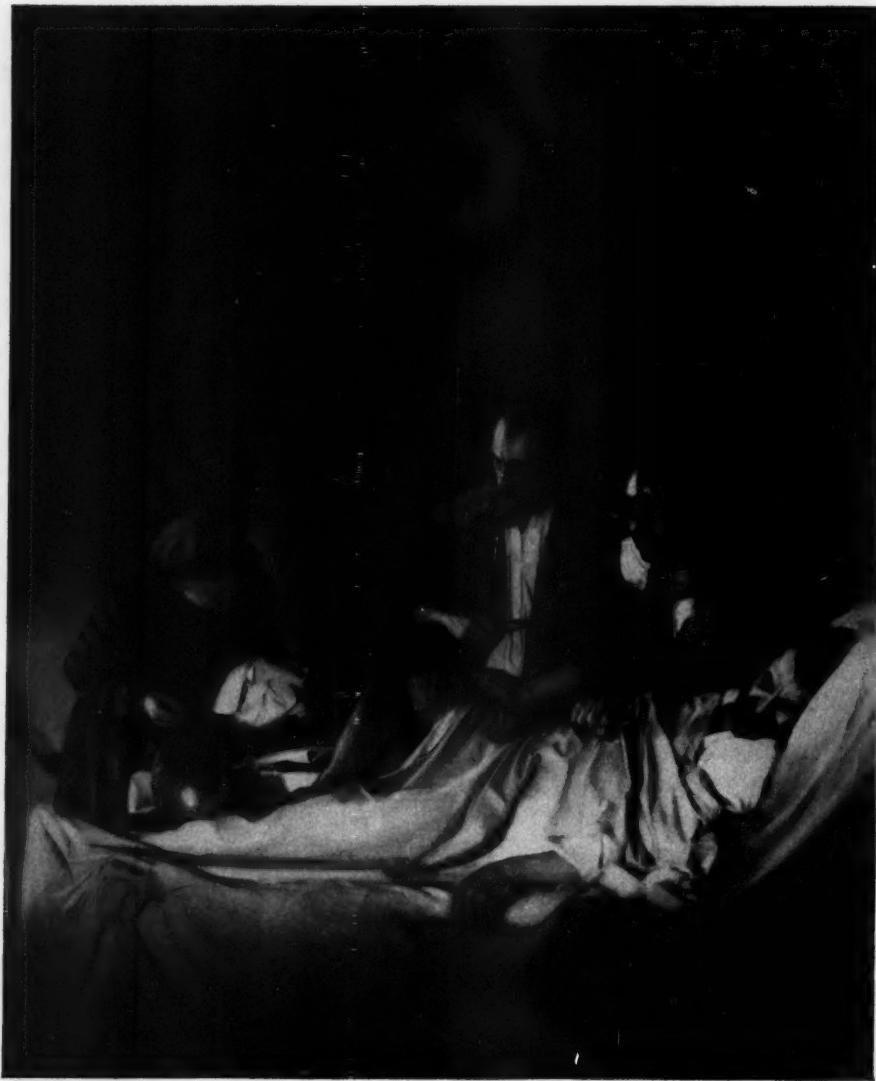
All sutures are gauged by the standard catgut sizes as here shown

000.....	4.....
00.....	6.....
0.....	8.....
1.....	16.....
2.....	24.....

†Potassium-mercuric-iodide is one of the best germicides known. It has a phenol coefficient of at least 1100; it is not precipitated by serum or other proteins; it is chemically stable—unlike iodine it does not break down under light and heat; it interferes in no way with the absorption of the sutures, and in the proportions used is free from irritating action on tissues. It is the ideal bactericide for the preparation of germicidal sutures.

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Ambroise Paré 1517-1590

PARÉ revived the use of the ligature only after careful experiment. His patients were eager to escape the torturous alternatives his less progressive rivals offered—the red hot knife and scalding oil. It is no longer necessary for surgeons to experiment with ligatures.

The surgeon of today can rely on D & G Sutures

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SECTION C.

*General Equipment, Furnishings
and Supplies*

OFFICE EQUIPMENT

ACCOUNTING SYSTEMS

Office Specialty Mfg. Co., Ltd., Toronto.
Kardex Ltd., Toronto.
R. J. Lovell Co., Ltd., Toronto.
Physicians Record Co., Chicago.

ADDING MACHINES

Burroughes Adding Machine Co. of Can., Ltd., Toronto.

BASKETS, WASTE

Office Specialty Mfg. Co., Ltd., Toronto.
Soclean, Limited, Toronto.
McClary Mfg. Co., Ltd., London.
Steel Equipment Co., Ltd., Ottawa.

BILLING MACHINES

Burroughes Adding Machine Co. of Can., Ltd., Toronto.

BOARDS, BULLETIN

Art Interchangeable Sign Co., Toronto.
Canada Decalcomania Co., Ltd., Toronto.
Universal Register Co., Chicago.

BOOKCASES, SECTIONAL

Office Specialty Mfg. Co., Ltd., Toronto.
Canada Furniture Mfrs., Ltd., Woodstock.
Globe-Wernicke Co., Ltd., Stratford.

CABINETS

Chart, History
Metal Craft Co., Ltd., Grimsby.
Scanlon-Morris Co., Madison, Wis.

DESKS

Office Specialty Mfg. Co., Ltd., Toronto.
Canada Furniture Mfrs., Ltd., Woodstock.
Canadian Office & School Furniture Co., Ltd., Preston.
Ont.
Globe-Wernicke Co., Ltd., Stratford.

FILING EQUIPMENT

Office Specialty Mfg. Co., Ltd., Toronto.
Canada Furniture Mfrs., Ltd., Woodstock.
Canadian Office & School Furniture Co., Ltd., Preston.
Globe-Wernicke Co., Ltd., Stratford.
Steel Equipment Co., Ltd., Ottawa.

POSTAL SCALES

Canadian Toledo Scale Co., Ltd., Windsor.
International Business Machines Co., Ltd., Toronto.

REGISTERS

Nurses, Physicians, Etc.
Art Interchangeable Sign Co., Toronto.
Universal Register Co., Chicago.

SAFES

Office Specialty Mfg. Co., Ltd., Toronto.
Goldie & McCulloch Co., Ltd., Galt.
Steel Equipment Co., Ltd., Ottawa.
J. & J. Taylor Co., Ltd., Toronto.

BED FURNISHINGS

COMFORTERS

Corbet-Cowley, Ltd., Toronto.
Canadian Feather & Mattress Co., Ltd., Toronto.
Globe Bedding Co., Ltd., Winnipeg.
Geo. H. Hees, Son & Co., Ltd., Toronto.
Montreal Feather & Down Co., Montreal.
National Mattress, Felt & Batting Co., Toronto.
Toronto Feather & Down Co., Ltd., Toronto.

CURLED HAIR

Delany & Pettit, Ltd., Toronto.

FEATHERS

P. Poulin & Co., Limited, Montreal.

MATTRESS COVERS

Corbett-Cowley, Ltd., Toronto.

MATTRESSES

Marshall Ventilated Mattress Co., Ltd., Toronto.
Arrow Bedding, Ltd., Toronto.
Canadian Bedding Co., Edmonton.
Canadian Feather & Mattress Co., Ltd., Toronto.
Fischman Spring Co., Ltd., Kitchener.
Globe Bedding Co., Toronto.
Gold Medal Bedding Co., Ltd., Montreal.
Simmons Limited, Montreal.
Waterloo Bedding Co., Ltd., Waterloo, Ont.

PILLOWS

Spring
Marshall Ventilated Mattress Co., Ltd., Toronto.

PILLOWS

Canadian Feather & Mattress Co., Ltd., Toronto.
Fischman Spring Co., Kitchener.
Globe Bedding Co., Ltd., Winnipeg.
Geo. H. Hees, Son & Co., Ltd., Toronto.
Montreal Feather & Down Co., Ltd., Montreal.
Simmons Limited, Montreal.
Standard Bedding Co., Ltd., Toronto.
Toronto Feather & Down Co., Ltd., Toronto.

SPRINGS, WOVEN WIRE

Colleran Spring Bed Co., Ltd., Toronto.
Dominion Bedstead Co., Ltd., Montreal.
Gold Medal Furniture Co., Ltd., Toronto.
Ives Bedding Co., Ltd., Cornwall.
Leggett & Platt Spring Bed Co., Ltd., Windsor.
Simmons Limited, Montreal.
Steel Furnishing Co., Ltd., New Glasgow.
Way Sagless Spring Co., Ltd., Toronto.

SPRING, BOX

Arrow Bedding Ltd., Toronto.
Canadian Feather & Mattress Co., Ltd., Toronto.
Colleran Spring Bed Co., Ltd., Toronto.
Gold Medal Bedding Co., Ltd., Montreal.
Ideal Bedding Co., Ltd., Toronto.
Leggett & Platt Spring Bed Co., Ltd., Windsor.
Simmons Limited, Montreal.
Waterloo Bedding Co., Ltd., Waterloo.

BLANKETS**Wool**

Co-operative Wool Growers Ltd., Toronto.
Skelton Woollen Mills, Toronto.
Ayers Limited, Lachute Mills, Quebec.
Barrington Woollen Mills, Barrington, N.S.
Bates & Innes, Ltd., Carleton Place, Ont.
Boyd Caldwell & Co., Ltd., Perth, Ont.
Harvey Bros., Montreal.
Kenwood Mills, Ltd., Arnprior, Ont.
Penmans Limited, Paris, Ont.
Slingsby Mfg. Co., Ltd., Brantford.
Stanfields Limited, Truro, N.S.

BLANKETS**Cotton**

Canadian Cottons Limited, Montreal.
Dominion Textile Co., Ltd., Montreal.

BROOMS

Soclean Limited, Toronto.
Canada Broom Co., Montreal.
Canadian National Institute for the Blind, Toronto.
Crown Broom Works, Ltd., Vancouver.
Fuller Brush Co., Ltd., Hamilton.
Perfection Sanitary Brush Co., Toronto.
Walter Woods, Ltd., Hamilton.

BRUSHES

Cleaning
Soclean Limited, Toronto.
Boeckh Co., Ltd., Toronto.
British Canadian Brushes, Ltd., Toronto.
Canada Brush Co., Ltd., St. John, N.B.
Fuller Brush Co., Ltd., Hamilton.
S. C. Johnson & Son, Ltd., Brantford.
T. S. Simms & Co., Ltd., St. John, N.B.
Stephens-Hepner Co., Ltd., Port Elgin, Ont.
Twistwire Brushes Ltd., Toronto.

Paint

Boeckh Co., Ltd., Toronto.
Canada Brush Co., Ltd., St. John, N.B.
London Brush Co., Ltd., London.
Meakins Sons, Ltd., Hamilton.
A. Muirhead Co., Ltd., Toronto.
Rubberst Co., Ltd., Toronto.
T. S. Simms & Co., Ltd., St. John, N.B.

CASTERS

Brantford Oven & Rack Co., Ltd., Brantford.
Toronto Lock Mfg. Co., Toronto.
National Hardware Co., Ltd., Orillia, Ont.

CASTERS, SLIDING

Onward Mfg. Co., Ltd., Kitchener, Ont.

CLEANSING AGENTS**Hand**

Soclean Limited, Toronto.
Alpha Chemical Co., Ltd., Kitchener, Ont.
Associated Chemical Mfrs., Toronto.
Albert Soaps, Ltd., Montreal.
Canadian Chemical Co., Ltd., Vancouver.
Edward Hawes & Co., Toronto.
Snap Co., Ltd., Montreal.

Kitchen, Floor, Etc.

Imperial Oil, Limited, Toronto.
E. W. Gillett Co., Ltd., Toronto.
Soclean Limited, Toronto.
Alpha Chemical Co., Ltd., Kitchener.
Bon-Ami Ltd., Montreal.
Capo Polishes, Ltd., Hamilton.
Cudahy Packing Co., Toronto.
Diamond Cleanser, Ltd., Toronto.
Dustbane Mfg. Co., Ltd., Ottawa.
S. F. Lawrason & Co., London.
Royal Crown Soaps, Ltd., Winnipeg.
Snap Co., Ltd., Montreal.
J. B. Ford Co., Wyandotte, Mich.

PIPE**Water Pipe**

E. W. Gillett Co., Ltd., Toronto.
Canadian Germicide Co., Ltd., Toronto.
J. B. Ford Co., Wyandotte, Mich.

Drain Pipe

E. W. Gillett Co., Ltd., Toronto.

DISINFECTANTS

J. F. Hartz Co., Ltd., Toronto.
Lehn & Fink (Canada) Ltd., Toronto.
Soclean Limited, Toronto.
Canadian Germicide Co., Ltd., Toronto.
Capo Polishes, Ltd., Hamilton.
Hygiene Products Ltd., Montreal.
Lambert Pharmacal Co., Toronto.
Liquid Soap & Sanitary Products, Ltd., Toronto.
Polusterine Products Co., of Can., Ltd., Toronto.
West Disinfecting Co., Montreal.
Woods Chemicals, Ltd., Montreal.

FLOOR POLISH AND WAX

Imperial Oil, Limited, Toronto.
Soclean Limited, Toronto.
Capo Polishes Ltd., Hamilton.
Channell, Ltd., Toronto.
Geo. Cooke Co., Ltd., Toronto.
S. C. Johnson & Son, Ltd., Brantford.
Reckitts (Oversea) Ltd., Montreal.
Sturgeons Ltd., Toronto.

LINEN MARKING EQUIPMENT

Beaver Laundry Machinery Co., Ltd., Toronto.
Applegate Chemical Co., Chicago.
National Marking Machine Co., Cincinnati.

MOPS, COTTON

Soclean Limited, Toronto.
American Broom Co., St. Basile, Que.
Canada Broom Co., Montreal.
T. S. Simms & Co., Ltd., St. John, N.B.
Tarbox Bros., Toronto.

PAILS, GALVANIZED

Soclean Limited, Toronto.
Thos. Davidson Mfg. Co., Ltd., Montreal.
McClary Mfg. Co., Ltd., London.
Sheet Metal Products Co., of Can. Ltd., Toronto.
E. T. Wright Co., Ltd., Hamilton.

PAILS, WOODEN

Soclean Limited, Toronto.
Wm. Cane & Sons Co., Ltd., Newmarket.
Keenan Woodenware Mfg. Co., Ltd., Owen Sound.
Pacific Box Co., Ltd., Vancouver.

WRINGERS, MOP

Soclean Limited, Toronto.

MEMORIAL TABLETS

J. G. Tickell & Sons, Toronto.
Architectural Bronze & Iron Works, Toronto.
Dominion Bronze & Iron, Ltd., Winnipeg.
Robt. McCausland, Ltd., Toronto.
Robt. Mitchell Co., Ltd., Montreal.
Patterson & Heward, Ltd., Toronto.
Tallman Brass & Metal, Ltd., Hamilton.

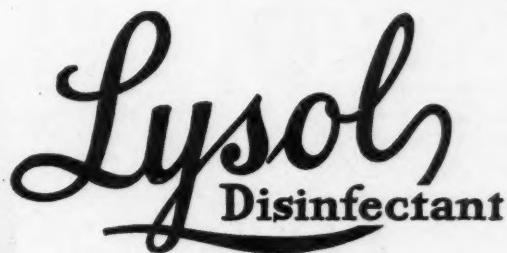
MIRRORS

Consolidated Plate Glass Co. of Can., Ltd., Toronto.
Hobbs Mfg. Co., Ltd., London.
Ontario Plate Glass, Ltd., Hamilton.
Toronto Plate Glass Importing Co., Ltd., Toronto.

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Because it is pure, efficient,
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irritation.

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LIMITED

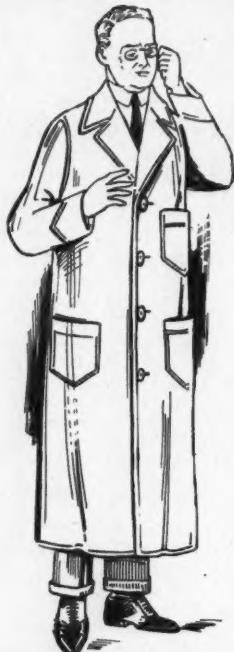
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Slip Covers for Mayo Instrument Stands; Abdominal Bands; Doctors' Coats and Pants for Hospital and Office; Operating Suits; Operating Gowns and Caps; Nurses' Aprons; Caps and Operating Gowns; Orderlies' Suits; Maids' Uniforms; Patients' Bed Gowns; Bath Robes; Ether Jackets; Pneumonia Jackets; Leg Holders; Bed Sheets; Draw Sheets; Lethotomy Sheets; Pillow Slips; Towels; Bed Pan Covers; Mattress Covers; Cooks' Coats, Pants, Aprons and Caps—in fact, ANYTHING IN COTTON GOODS.



SURGEON'S COAT

Style No. 1700

A popular coat for making "rounds" also for clinics and laboratory use. Made of best quality bleached duck. Has convertible lapel collar, three pockets and side openings to permit access to inner pockets when coat is buttoned, pointed cuff on sleeves, detachable buttons.

Length about 46 inches. Price: \$42.00 per dozen.



NURSE'S OPERATING GOWN

Style No. 3200

Full length gown with plain front, neat turnover collar and full-length sleeves. Closes down back with tie tapes, and with long belt stitched on front to tie at back. Made of best quality Indian Head bleached. Can be furnished with knitted cuffs which fit closely and easily into the rubber gloves. Prices: Regular cuffs, \$22.00 per dozen; with knitted cuffs, \$24.00 per dozen.



HOUSE DOCTOR'S COAT

Style No. 300—Of best quality bleached drill, neat lapel collar, pockets and cuffs, as illustrated. Detachable buttons.

Price, \$27.00 per dozen.

Trousers to match, \$25.50 per dozen.



Style No. 3700
SURGEON'S OPERATING GOWN

Of best quality Indian Head bleached. Closes at back with tie tapes, and long belt sewn on front to tie. Standing collar and long, comfortable, roomy sleeves.

Prices:

Regular cuffs, \$22.00 per dozen.
Knitted cuffs, \$24.00 per dozen.



ORDERLY'S COAT

Style No. 703—In either plain white or striped, good quality bleached duck. Pockets, collar and cuffs as illustrated. Price: Plain white, \$21.00 per dozen.

Striped, \$22.50 per dozen.



Style No. 8500

BED GOWN

Standard length, 40 in., opens down back with linen buttons; reinforced with yoke both front and back. Prices: Indian Head unbleached, \$12.00 per dozen; Indian Head bleached, \$16.00 per dozen.

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of
Quality
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Service



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TORONTO 2

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PAPER GOODS**Crepe Paper**

Interlake Tissue Mills Co., Ltd., Toronto.
Dennison Mfg. Co., Framingham, Mass.

Paper Cups

Can. Wm. A. Rogers, Ltd., Toronto.
Hygienic Products, Limited, Montreal.
G. H. Wood & Co., Toronto.

Napkins, Tray Covers

Dennison Mfg. Co., Framingham, Mass.
E. B. Eddy Co., Ltd., Hull, Que.
Hygiene Products Ltd., Montreal.
Interlake Tissue Mills Co., Ltd., Toronto.

Toilet Paper

E. B. Eddy Co., Ltd., Hull, Que.
Garden City Paper Mills Co., St. Catharines, Ont.
Interlake Tissue Mills Co., Ltd., Toronto.
Victoria Paper & Twine Co., Ltd., Toronto.

Paper Towels

Hygiene Products, Ltd., Montreal.
Interlake Tissue Mills Co., Ltd., Toronto.
Dennison Mfg. Co., Framingham, Mass.
G. H. Wood & Co., Toronto.

COOLERS, WATER

Geo. Sparrow & Company, Toronto.
Thos. Davidson Mfg. Co., Ltd., Montreal.
McClary Mfg. Co., Ltd., London.
Perfection Cooler Co., Ltd., Toronto.
Geo. R. Prowse Range Co., Ltd., Montreal.
Sheet Metal Products Co., of Can., Ltd., Toronto.
G. H. Wood & Co., Toronto.

CUTTERS, CLOTH

Brown Engineering Corp., Ltd., Toronto.
Eastman Machine Co., Buffalo.
H. Naimin Co., Inc., New York.
W. J. Westaway Co., Ltd., Hamilton.

DISPENSERS**Liquid Soap**

J. F. Hartz Co., Ltd., Toronto.
Soclean Limited, Toronto.
Liquid Soap & Sanitary Products Co., Toronto.
Poluster-ne Products Co., of Can. Ltd., Toronto.

FURNITURE**Beds, Dressers, Chairs**

H. R. Moody, Toronto.
Canada Furniture Mfrs., Ltd., Woodstock.
Dominion Furniture Mfrs., Ltd., Ste. Therese, Que.
Gibbard Furniture Shops, Ltd., Napaneen, Ont.
Hespeler Furniture Co., Ltd., Hespeler, Ont.
Lippert Furniture Co., Ltd., Kitchener.
McLagan Furniture Co., Ltd., Stratford.
Simmons Limited, Montreal.
Steel Equipment Co., Ltd., Ottawa.

Cafe

I. G. Pickering Co., Ltd., Toronto.
Sani-Products Co., Ltd., Toronto.
J. B. Watson Furniture Co., Ltd., Kincardine, Ont.

Cots, Metal

Atlas Metal Bed Mfg. Co., Ltd., Montreal.
Canadian Mersereau Co., Ltd., Toronto.
Ives Bedding Co., Ltd., Cornwall.
Simmons Limited, Montreal.
Stratford Bed Co., Ltd., Stratford.

Invalid Chairs

Gendron Mfg. Co., Ltd., Toronto.

Laboratory

Metal Craft Co., Ltd., Grimsby, Ont.
Canadian Office & School Furniture Co., Ltd., Preston,
Ont.
Sani-Products Co., Ltd., Toronto.

RECEPTION ROOM

T. Eaton Co., Ltd., Toronto.
H. R. Moody, Toronto (Reed).
Art Furniture Co., Ltd., Kitchener.
Canada Furniture Mfrs., Ltd., Woodstock.
Eastern Furniture Co., Ltd., Victoriaville, Que.
Elmira Furniture Co., Ltd., Elmira, Ont.
Gibbard Furniture Shops, Ltd., Napaneen.
McLagan Furniture Co., Ltd., Stratford.
North America Furniture Co., Ltd., Owen Sound, Ont.

Tables, Bedside, Steel

J. F. Hartz Co., Ltd., Toronto.
Metal Craft Co., Ltd., Grimsby.
Ingram & Bell, Ltd., Toronto.
Sani-Products Co., Ltd., Toronto.
Steel Equipment Co., Ltd., Ottawa.

GARMENTS, ACCESSORIES**Aprons, Nurses**

Corbett-Cowley, Ltd., Toronto.

Men's Work

J. A. Haugh Mfg. Co., Ltd., Toronto.

Palmer, McLellan Shoe Pack Co., Fredericton, N.B.

Scythes & Co., Ltd., Toronto.

Rubber

W. J. Anderson Mfg. Co., Ltd., London.
Canadian Consolidated Rubber Co., Ltd., Montreal.
Dunlop Tire & Rubber Goods Co., Ltd., Toronto.
Transparent Rubber Goods Co., Ltd., Toronto.

BATH ROBES

Corbett-Cowley, Ltd., Toronto.
Caulfield, Burns & Gibson, Ltd., Toronto.
Comfort Kimona Mfg. Co., Montreal.

CAPS, NURSES

Corbett-Cowley, Ltd., Toronto.
T. Eaton Co., Ltd., Toronto.

CLOTHING, COOKS

Corbett-Cowley, Ltd., Toronto.
Miller Men's Wear, Ltd., Toronto.

PINS, NURSES

A. E. Edwards, Toronto.
Trophy Craft, Ltd., Toronto.
Ellis Brothers, Ltd., Toronto.

SHOES, SCIENTIFIC

Cantilever Shoe Shops, Toronto.
Walk-Over Boot Shop, Toronto.
Taplin Natural Tread Shoes, Ltd., Toronto.

UNIFORMS, NURSES

Billie Burke Dress Co., Ltd., Toronto.
Corbett-Cowley, Limited, Toronto.
T. Eaton Co., Ltd., Toronto.
Bland & Co., Ltd., Montreal.
Hampton Mfg. Co., Ltd., Montreal.

GOWNS: PATIENTS, OPERATING

Corbett-Cowley, Limited, Toronto.
Bland & Co., Ltd., Montreal.

INSECT POWDERS

C. A. Cooch, Toronto.
Alpha Chemical Co., Ltd., Kitchener, Ont.
S. H. Wood & Co., Toronto.

RUBBER GOODS**CUSHIONS AND RINGS**

J. F. Hartz Co., Ltd., Toronto.
Canadian Consolidated Rubber Co., Ltd., Montreal.
K. & S. Tire & Rubber Goods, Ltd., Toronto.
Ingram & Bell, Ltd., Toronto.

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CAREFULLY CUT
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No. 8100, 8200, 8400
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No. 7700

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Middy Twill
Corley Poplin
Middy Twill
Corley Poplin
Indian Head

PRICE
Government Sales Tax Included
\$3.50 ea., or 3 for \$10.00
\$6.50 ea., or 3 for \$18.00
\$4.25 ea., or 3 for \$12.00
\$7.00 ea., or 3 for \$20.00
\$3.50 ea., or 3 for \$10.00

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Include Caps

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Sterling Rubber Co., Ltd., Guelph.
 Canadian Consolidated Rubber Co., Ltd., Montreal.
 Ontario Rubber Co., Toronto.
 Transparent Rubber Goods Co., Ltd., Toronto.

MATS AND MATTING, RUBBER

Canadian Consolidated Rubber Co., Ltd., Montreal.
 Canadian I. T. S. Rubber Co., Ltd., Toronto.
 Dunlop Tire & Rubber Goods Co., Ltd., Toronto.
 Gutta Percha & Rubber, Ltd., Toronto.
 K. & S. Tire & Rubber Goods, Ltd., Toronto.

SOAP, ANTISEPTIC

J. F. Hartz Co., Ltd., Toronto.
 Liquid Soap & Sanitary Products Co., Toronto.
 Soclean Limited, Toronto.
 Associated Chemical Mfrs., Toronto.
 Beaver Soap Co., Ltd., Winnipeg.
 Canadian Germicide Co., Ltd., Toronto.
 Polusterine Products Co., of Can., Ltd., Toronto.
 West Disinfecting Co., Montreal.
 Woods Chemicals, Ltd., Toronto.

SOAP, CHIP

Soclean Limited, Toronto.
 Albert Soap, Ltd., Montreal.
 Beaver Soap Co., Ltd., Winnipeg.
 Dustbane Products, Ltd., Ottawa.
 Guelph Soap Co., Ltd., Guelph.
 Palmolive Mfg. Co., Ltd., Toronto.
 Proctor & Gamble Co., of Can., Ltd., Toronto.

SOAP, LAUNDRY

(See Under Laundry Supplies.)

SOAP, TOILET

Albert Soaps Ltd., Montreal.
 Colgate & Co., Ltd., Montreal.
 Gold Dust Corp., Ltd., Montreal.
 Andrew Jergens Co., Ltd., Perth, Ont.
 Lever Bros., Ltd., Toronto.
 Palmolive Mfg. Co., Ltd., Toronto.
 Polusterine Products Co. of Can., Ltd., Toronto.
 Proctor & Gamble Co. of Can., Ltd., Toronto.
 Royal Crown Soaps, Ltd., Montreal.
 Seward's Ltd., Ville St. Pierre, Que.
 John Taylor & Co., Ltd., Toronto.

TEXTILES**CURTAIN MATERIAL**

T. Eaton Co., Ltd., Toronto.
 Geo. H. Hees Son & Co., Ltd., Toronto.
 Daly & Morin, Ltd., Montreal.
 Lace Goods Co., Ltd., Toronto.
 Prime & Rankin Ltd., Toronto.
 Williams Textiles, Ltd., Montreal.

DRY GOODS

T. Eaton Co., Ltd., Toronto.
 W. R. Brock & Co., Ltd., Toronto.
 John MacDonald & Co., Ltd., Toronto.

LABELS, WOVEN

J. & J. Cash, Inc., Belleville.
 Narrow Fabric Weaving & Dyeing Ltd., Galt, Ont.

LINENS, BED

T. Eaton Co., Ltd., Toronto.
 Canadian Cottons Ltd., Montreal.
 Dominion Textile Co., Ltd., Montreal.
 Dominion Linens, Ltd., Guelph.

TOWELS AND TOWELING**Linen and Union**

Caldwell Linen Mills, Ltd., Iroquois, Ont.
 Dominion Fabrics Ltd., Dunnville, Ont.
 Dominion Linens, Ltd., Guelph.

Cotton

Dominion Fabrics Ltd., Dunnville, Ont.
 Dominion Linens, Ltd., Guelph.
 Dominion Textile Co., Ltd., Montreal.
 Montreal Cottons, Ltd., Valleyfield, Que.
 Stauffer-Dobbie, Ltd., Galt.

AWNINGS

T. Eaton Co., Ltd., Toronto.
 B.C. Tent & Awning Co., Ltd., Vancouver.
 Holland Window Shade Co., Halifax.
 Manitoba Tent & Awning Co., Winnipeg.
 Montreal Tent, Awning & Tarpaulin Co., Ltd., Montreal.
 D. Pike Co., Ltd., Toronto.
 J. Taylor, Toronto.

WINDOW SHADES

T. Eaton Co., Ltd., Toronto.
 Daly & Morin, Ltd., Montreal.
 Geo. H. Hees Son & Co., Ltd., Toronto.

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Insignia Jeweller

22 YONGE STREET ARCADE,
ELGIN 3669 TORONTO

SECTION D.

*Clinical and Scientific Equipment
and Supplies***AIR COMPRESSORS**

Frank S. Betz Co., Hammond, Ind.
Mueller & Co., Chicago.
Pelton Crane Co., Detroit.

Canada Chemical Works, Ltd., Montreal.
Mallinckrodt Chemical Works, Ltd., Montreal.
E. R. Squibb & Sons, New York.

ALCOHOL

Ethyl, Grain, Rubbing.
Canadian Industrial Alcohol Co., Ltd., Montreal.
Gooderham & Worts, Ltd., Toronto.
Standard Chemical Co., Ltd., Toronto.

Local

J. F. Hartz Co., Ltd., Toronto.
Abbott Laboratories, Ltd., Toronto.
Mallinckrodt Chemical Works, Ltd., Montreal.
Parke Davis & Co., Ltd., Windsor.

AMBULANCES

General Motors Corp., Ltd., Oshawa.
A. B. Greer & Son, London.
Smith Brothers, Toronto.

ANESTHESIA APPARATUS

Toledo Technical Appliance Co., Toledo, Ohio.
Frank S. Betz Co., Hammond, Ind.
Ohio Chemical & Mfg. Co., Cleveland.
Safety Anesthesia Apparatus Concern, Chicago.

ANATOMICAL CHARTS

J. F. Hartz Co., Ltd., Toronto.
Denoyer-Geppert Co., Chicago.
Kny-Scheerer Corp. of America, New York.
Central Scientific Co., Chicago.

ARTIFICIAL LIMBS

Calgary Artificial Limb Factory, Calgary.
Chesley Artificial Limb Co., Ltd., Hantsport, N.S.
Hanger Standard Limb Co., Ltd., Toronto.

ANESTHETICS

Chloroform, Ether.
Ethical Drug Products, Ltd., Toronto.
J. F. Hartz Co., Ltd., Toronto.

ATOMIZERS

Canadian Consolidated Rubber Co., Ltd., Montreal.
DeVilbiss Mfg. Co., Ltd., Windsor.
K. & S. Tire & Rubber Goods Ltd., Toronto.

BEDS, ADJUSTABLE

Gendron Mfg. Co., Ltd., Toronto.
Metal Craft Co., Ltd., Grimsby, Ont.
Simmons Limited, Montreal.

BOTTLES

J. F. Hartz Co., Ltd., Toronto.
Beaver Flint Glass Co. of Toronto, Ltd., Toronto.
Consumers Glass Co., Ltd., Montreal.
Dominion Glass Co., Ltd., Montreal.
Richards Glass Co., Ltd., Toronto.

Hot Water

Canadian Consolidated Rubber Co., Ltd., Montreal.
K. & S. Tire & Rubber Goods, Ltd., Toronto.

CHEMICAL REAGENTS

Canadian Laboratory Supplies, Ltd., Toronto.

DRAINAGE TUBING

Sterling Rubber Co., Ltd., Guelph.
Herd & Charlton, Inc., Montreal.

KNIVES

Detachable Blades
Bard-Parker Co., Inc., New York.

KOTEX PADS

Lewis Mfg. Co., Walpole, Mass.

SYRINGES

Glass
Beckton, Dickinson & Co., Rutherford, N.J.
Fisher Scientific Co., Ltd., Montreal.
Max Woher & Sons Co., Cincinnati, Ohio.

Rubber

Canadian Consolidated Rubber Co., Ltd., Montreal.
K. & S. Tire & Rubber Goods, Ltd., Toronto.

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Pharmaceuticals

Hospital Supplies

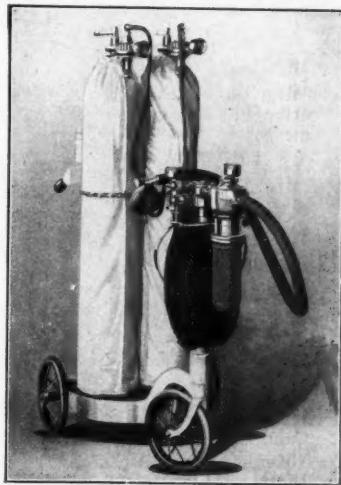
Medical Books



**24-26 HAYTER STREET
TORONTO**

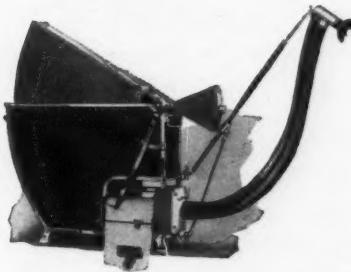
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The Metabolor
The T. & A. Pump
The Surgical Pump



M-85 Recording Metabolor

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 J. F. Hartz Co., Ltd., Toronto.
 Faichney Instrument Corp., Watertown, N.Y.
 Ingram & Bell, Ltd., Toronto.
 Taylor Instrument Companies, Toronto.
 White X-Ray & Surgical Supply Co., Toronto.

CUTTERS, BANDAGE & GAUZE

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 Naimin Co., Inc., New York.
 Universal Cutter Co., St. Louis.

DENTAL DEPARTMENT**CHAIRS**

Clarke Dental Mfg. Co., Ltd., Toronto.

INSTRUMENTS

Ash Temple Co., Ltd., Toronto.
 S. S. White Co. of Can., Ltd., Toronto.

STERILIZERS

Wilmot Castle Co., Rochester, N.Y.
 American Sterilizer Co., Erie, Pa.
 Bramhall Deane Co., New York.
 Scanlan-Morris Co., Madison, Wis.

SUPPLIES

L. D. Caulk Co. of Can., Ltd., Toronto.
 Crown Dental Laboratory, Toronto.
 Dominion Dental Mfg. Co., Montreal.
 Goldsmith Bros. Smelting & Refining Co., Ltd., Toronto.
 S. S. White Co. of Canada, Ltd., Toronto.
 Ash Temple Co., Ltd., Toronto.

X-RAY EQUIPMENT

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THE SAHLI HAEMOGLOBINOMETER

The most accurate method of measuring the amount of colouring matter in the haemoglobin of the blood is by use of the Sahli Haemoglobinometer.

The Surgical Instrument Department can supply this article at the remarkable price of \$6.00

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 Lewis Mfg. Co., Walpole, Mass.
 Geo. H. Broughton & Co., Toronto.
 Bauer & Black, Ltd., Toronto.
 Hygienic Fibre Co., Inc., New York.
 Hygienic Products, Ltd., Montreal.
 Johnson & Johnson, Ltd., Montreal.
 Smith & Nephew, Ltd., Montreal.

ABSORBENT COTTON SUBSTITUTES

Lewis Mfg. Co., Walpole, Mass.
 Cellucotton Products Co., Chicago.
 Hygienic Fibre Co., Inc., New York.

ADHESIVE PLASTER

Lewis Mfg. Co., Walpole, Mass.
 Johnson & Johnson, Ltd., Montreal.

COTS, All Kinds

Sterling Rubber Co., Ltd., Guelph, Ont.

DRESSING, SURGICAL

Herdt & Charton, Inc., Montreal.
 Lewis Mfg. Co., Walpole, Mass.
 Hygienic Fibre Co., Inc., New York.
 Smith & Nephew, Ltd., Montreal.

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L. C. Cahn Co., New York.
 Kny-Scheerer Corporation of America, N.Y.
 Vollrath Co., Cheboygan, Wis.
 Wright & Co., Montreal.

INSTRUMENTS**Illuminated**

J. F. Hartz Co., Ltd., Toronto.
 Electro Surgical Instrument Co., Rochester, N.Y.
 V. Mueller & Co., Chicago.

Operating

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 J. F. Hartz Co., Ltd., Toronto.
 Frank S. Betz Co., Hammond, Ind.
 Kny-Scheerer Corporation of America, N.Y.
 Ingram & Bell, Ltd., Toronto.
 The Stevens Companies, Ltd., Toronto.

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 J. F. Hartz Co., Ltd., Toronto.
 Beeton, Dickinson & Co., Rutherford, N.J.
 Frank S. Betz Co., Hammond, Ind.
 Kny-Scheerer Corporation of America, N.Y.
 Eimer & Amend, New York.
 Taylor Instrument Companies, Ltd., Toronto.
 Bausch & Lomb Optical Co., Rochester.

FURNITURE, STEEL

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 Metal Craft Co., Ltd., Grimsby, Ont.
 Steel Equipment Co., Ltd., Ottawa.
 Scanlan-Morris Co., Madison, Wis.

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 Fisher Scientific Co., Ltd., Montreal.
 V. Mueller & Co., Chicago.
 Richards Glass Co., Ltd., Toronto.

GLOVES

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Wilmot Castle Co., Rochester, N.Y.
 American Sterilizer Co., Erie, Pa.
 Barnstead Mfg. Co., Boston, Mass.
 Bramhall Deane Co., New York.
 Scanlan-Morris Co., Madison, Wis.

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 Eastern Furniture Co., Ltd., Victoriaville, Que.
 Gem Crib & Cradle, Ltd., Kitchener, Ont.
 Lea-Trimble Mfg. Co., Toronto.
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Port Hope Sanitary Mfg. Co., Ltd., Port Hope, Ont.
 Jas. Robertson Co., Ltd., Montreal.
 Standard Sanitary Mfg. Co., Ltd., Toronto.

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Johnson & Johnson, Ltd., Montreal.

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 N.Y.

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 Canadian Fairbanks-Morse Co., Ltd., Montreal.
 International Business Machines Co., Ltd., Toronto.

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 Frank S. Betz Co., Hammond, Ind.

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 Lehn & Fink (Canada) Ltd., Toronto.
 Abbott Laboratories, Toronto.
 Arlington Chemical Co., Yonkers, N.Y.
 Allen & Hanburys Co., Ltd., Toronto.
 Carter Cummings & Co., Toronto.
 Denver Chemical Mfg. Co., Montreal.
 Chas. E. Frost & Co., Montreal.
 Frank W. Horner, Ltd., Montreal.
 Ingram & Bell, Ltd., Toronto.
 Lavoris Chemical Co., Ltd., Toronto.
 Lyman's Limited, Montreal.
 H. K. Mulford Co., Philadelph'a.
 National Drug & Chemical Co. of Canada, Ltd., Montreal.
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Of selected fresh organs, immediately dried under high vacuum at very low temperature.

Equal to Fresh Tissues

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Extracts of organs associated in formulae to use against the more general

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Boxes of 2 tubes of 16 tablets each tube, or single tubes of 22 tablets.

Also boxes of 6 ampoules.

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Radiferous Hydroxide of Bismuth in suspension in oil for intramuscular injections.

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The most active and best tolerated spirilides. Absolutely painless and inoffensive.

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One ampoule every day for 10 days, or 2 ampoules every 5 days in series of 5 injections.

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 Victor X-Ray Corporation, Chicago and Toronto.
 Acme International X-Ray Co., Chicago.
 General X-Ray Company, Boston.
 Standard Engeln Corporation, Cleveland.

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Crane Company, Ltd., Montreal.
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BLANKET WARMERS

American Sterilizer Co., Erie, Pa.
 Crane Company, Ltd., Montreal.
 Scanlan-Morris Co., Madison, Wis.

MECHANOTHERAPY**Massage Applicators**

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QUARTZ LAMPS

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 General X-Ray Co., Boston.
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 Canadian Consolidated Rubber Co., Ltd., Montreal.
 Dunlop Tire & Rubber Goods Co., Ltd., Toronto.
 Gutta Percha & Rubber Ltd., Toronto.
 I. B. Kleinert Rubber Co., Toronto.
 Transparent Rubber Goods Co., Ltd., Toronto.

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 Wilmot Castle Co., Rochester, N.Y.
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 Barnstead Still & Sterilizer Co., Inc., Boston.
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 Lymans Limited, Montreal.
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 White X-Ray & Surgical Supply Co., Toronto.

SUTURES

Davis & Geek, Inc., Brooklyn, N.Y.
 Herdt & Charlton, Inc., Montreal.
 Johnson & Johnson, Ltd., Montreal.

TABLES, OPERATING

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 Kny-Scheerer Corporation of America, New York.
 Scanlan-Morris Co., Madison, Wis.

TEACHING DEPARTMENT**ANATOMICAL CHARTS**

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 Desbarats Printing Co., Ltd., Montreal.
 R. J. Lovell Co., Ltd., Toronto.

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Green Soap

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*An Efficient Cleanser
Absolutely Pure
Attractive in Cost*

Prepared from the highest grade of vegetable oils only, saponified by pure Potassium Hydroxide.

It is all pure soap, neutralized to contain no excess of free alkali, and it will give absolute satisfaction in exacting hospital use.

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TORONTO

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 Macmillan Co. of Canada, Ltd., Toronto.
 W. B. Saunders Co., Philadelphia.
 William Wood & Co., New York.

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 Alexander & Cable Lithographing Co., Ltd., Toronto.
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 R. J. Lovell Co., Ltd., Toronto.

STEREOPTICONS

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 Bausch & Lomb Optical Co., Rochester.
 Spencer Lens Co., Buffalo.

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Victor X-Ray Corporation, Chicago and Toronto.
 Acme International X-Ray Co., Chicago.
 General X-Ray Co., Boston.
 Standard Engeln Corporation, Cleveland.

THERMOMETERS, CLINICAL

T. Eaton Co., Ltd., Toronto.
 J. F. Hartz Co., Ltd., Toronto.
 Herdt & Charlton, Inc., Montreal.
 Becton, Dickinson & Co., Rutherford, N.J.
 Fisher Scientific Co., Ltd., Montreal.
 Taylor Instrument Co., Toronto.
 White X-Ray & Surgical Supply Co., Toronto.

WASTE RECEPTACLES

J. F. Hartz Co., Ltd., Toronto.
 Metal Craft Co., Ltd., Grimsby, Ont.
 Soclean Ltd., Toronto.
 McClary Mfg. Co., Ltd., London.
 Sheet Metal Products Co. of Canada, Ltd., Toronto.
 Scanlan-Morris Co., Madison, Wis.

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 M. B. Evans X-Ray Co., Detroit.
 Kelley-Koett Mfg. Co., Inc., Covington, Ky.
 Victor X-Ray Corporation, Chicago.
 Victor X-Ray Corporation of Canada, Ltd., Toronto.
 Acme International X-Ray Co., Chicago.
 General X-Ray Co., Boston.
 Standard Engeln Corporation, Cleveland.
 Dick X-Ray Co., St. Louis, Mo.

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Burke Electric & X-Ray Co., Toronto.
 M. B. Evans X-Ray Co., Detroit.
 Kelley-Koett Mfg. Co., Inc., Covington, Ky.
 Victor X-Ray Corporation, Chicago and Toronto.
 Acme International X-Ray Co., Chicago.
 Mallinckrodt Chemical Works, Ltd., Montreal.
 H. W. McCurdy Co., Toronto.
 Dick X-Ray Co., St. Louis, Mo.
 White X-Ray & Surgical Supply Co., Toronto.

CASSETTES AND SCREENS

See Firms listed under Apparatus.

DARK ROOM SUPPLIES

See Firms listed under Apparatus.

PLATES, FILMS

Burke Electric & X-Ray Co., Toronto.
 M. B. Evans X-Ray Co., Detroit.
 Victor X-Ray Corporation of Canada, Ltd., Chicago and Toronto.
 Standard Engeln Corporation, Cleveland.
 Canadian Kodak Co., Ltd., Toronto.
 White X-Ray & Surgical Supply Co., Toronto.

TUBES

Canadian General Electric Co., Ltd., Toronto.
 See also Firms listed under Apparatus.

Please refer to THE CANADIAN HOSPITAL when writing.

SECTION E.

*Laundry Equipment and Supplies***ALKALIES**

Beaver Laundry Machinery Co., Ltd., Toronto.
 Brunner, Mond Canada, Ltd., Montreal.
 J. B. Ford Co., Wyandotte, Mich.
 R. Gardner Co., Toronto.
 Meyer Bros., Toronto.

AMMONIA

Soclean Limited, Toronto.
 Alpha Chemical Co., Ltd., Kitchener.
 Canada Colors & Chemicals, Ltd., Toronto.
 S. F. Lawrason & Co., London.
 Pugsley Dingman & Co., Ltd., Toronto.

BASKETS, LAUNDRY

Beatty Bros., Ltd., Fergus, Ont.
 Brantford Willow Works, Brantford, Ont.
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 Willow Art Furniture Mgrs., Winnipeg.
 Stratford Mfg. Co., Ltd., Stratford, Ont.

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Metal Craft Co., Ltd., Grimsby, Ont.
Ge. Sparrow & Co., Toronto.
 Dennis Wire & Iron Works Co., Ltd., London.
 Geo. B. Meadows, Ltd., Toronto.
 Steel Equipment Co., Ltd., Ottawa.

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Beaver Laundry Machinery Co., Ltd., Toronto.
Canadian Salt Co., Ltd., Windsor.
 Meyer Bros., Toronto.

CAUSTIC SODA

Canadian Salt Co., Ltd., Windsor, Ont.
Howard Smith Paper Mills, Ltd., Montreal.
 J. B. Ford Co., Wyandotte, Mich.

DETERGENTS

Beaver Laundry Machinery Co., Ltd., Toronto.
Soclean Limited, Toronto.
 E. W. Gillett Co., Ltd., Toronto.
 Alpha Chemical Co., Ltd., Kitchener.
 J. B. Ford Co., Wyandotte, Mich.

DISINFECTORS: MATTRESS, CLOTHING

American Sterilizer Co., Erie, Pa.
Barnstead Mfg. Co., Boston.

DRYERS

Beaver Laundry Machinery Co., Ltd., Toronto.
Geo. Sparrow & Co., Toronto.
Canadian Laundry Machinery Co., Ltd., Toronto.
Meyer Brothers, Toronto.
Premier Laundry Machinery Co., Ltd., Montreal.

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Canadian Radiant Electric Co., Grimsby, Ont.
Canadian Westinghouse Co., Ltd., Hamilton.
National Electric Heating Co., Ltd., Toronto.

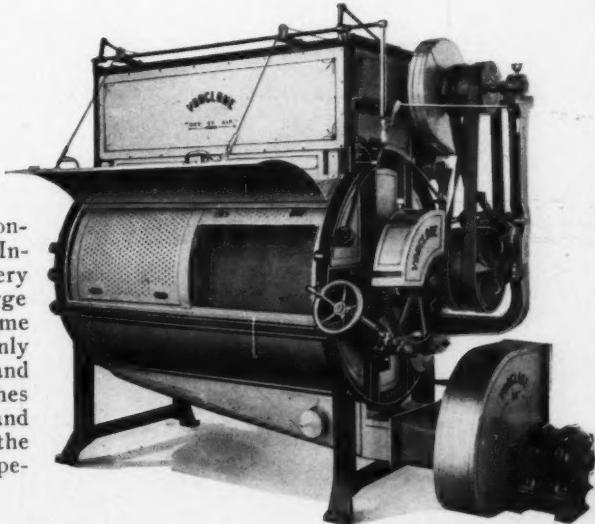
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See Firms Listed under Dryers

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The Beaver-Vorclone Drying Tumbler is constructed on entirely different principles. Instead of drying clothes by heating to a very high temperature, it dries by using large quantities of cool fresh air—in just the same way as the old-fashioned clothes line. Only enough heat is used to make the air warm and the drying operation speedy. The clothes come out of this machine as cool, fresh and sweet as if they were dried on a line in the sunshine. This reason alone makes it especially the drier for the hospital.

Let us send you full details



Manufactured in Canada by

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More Light on the subject of FINISHING !

JUST as hundreds of Laundry Departments in Hospitals have discarded the old method of finishing coats, aprons, caps, gowns, etc., by starching, so you, too, can now impart body, stiffness, strength and restore the original new appearance of the fabric by sizing with Satin Finish.

Satin finish **penetrates**, whether used cooked or raw. It does not contain chalk, talc, etc., and is an adaptation of a textile mill sizing to laundry requirements. It does not stick when ironed, show on the surface of fabric or produce that objectionable brittle feel of a starch.

Any hospital laundry having a pressing machine, washing machine and an extractor can size with Satin Finish—can produce better and more work easier, quicker and more economically.

Call your jobber for a trial barrel,
or write us for a free sample.

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Hospital Department

COLUMBUS - OHIO

73 Distributors

8 Warehouses

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McClary Mfg. Co., London.
Jas. Morrison Brass Mfg. Co., Ltd., Toronto.
Mueller, Limited, Sarnia, Ont.
Rudd Mfg. Co., Toronto.

INDELIBLE INK

Beaver Laundry Machinery Co., Ltd., Toronto.
Applegate Chemical Co., Chicago.
National Marking Machine Co., Cincinnati.
Payson's Indelible Ink Co., Northampton, Mass.

IRONING MACHINES

Beaver Laundry Machinery Co., Ltd., Toronto.
Brantford Washing Machine Co., Ltd., Brantford.
Canadian Ironing Machine Co., Ltd., Woodstock.
Canadian Laundry Machinery Co., Ltd., Toronto.
Meyer Brothers, Toronto.
Premier Laundry Machinery Co., Ltd., Montreal.

LYE

E. W. Gillett Co., Ltd., Toronto.

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Cudahy Packing Co., Toronto.
Gold Dust Corporation, Ltd., Montreal.
Lever Bros., Ltd., Toronto.
Palmolive Mfg. Co., Ltd., Toronto.
Proctor & Gamble Co. of Canada, Ltd., Toronto.
Pugsley, Dingman & Co., Ltd., Toronto.
St. Croix Soap Mfg. Co., Ltd., St. Stephen, N.B.

STARCH

Canada Starch Co., Ltd., Montreal.
Beaver Laundry Machinery Co., Ltd., Toronto.
Keever Starch Co., Columbus, Ohio.
Pacific Starch Products, Ltd., New Westminster, B.C.

TABLES, IRONING

Beaver Laundry Machinery Co., Ltd., Toronto.
Taylor-Forbes Co., Ltd., Guelph.
Canadian Laundry Machinery Co., Ltd., Toronto.
Meyer Brothers, Toronto.

TRUCKS

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John Watson Mfg. Co., Ltd., Ayr, Ont.
Diamond State Fibre Co. of Canada, Ltd., Toronto.
Wire Woven Wood Mfg. Co., Ltd., Woodbridge, Ont.

TUBS

See Firms Under Plumbing Section B.

WASHERS

Beaver Laundry Machinery Co., Ltd., Toronto.
Canadian Hoffman Machinery Co., Ltd., Toronto.
Canadian Ironing Machine Co., Ltd., Woodstock, Ont.
Canadian Laundry Machinery Co., Ltd., Toronto.
Guarantee Laundry Machinery Co., Winnipeg.
Meyer Brothers, Toronto.
Premier Laundry Machinery Co., Ltd., Montreal.
Sumbling Machinery Co., Ltd., Toronto.
Toronto Laundry Machinery Co., Ltd., Toronto.
John Turner & Son, Toronto.

WASHING POWDERS

See Firms Listed under Laundry Soaps.

WATER SOFTENING EQUIPMENT

Refinite Co. of Canada, Ltd., Toronto.
Canadian Allis-Chalmers, Ltd., Toronto.
National Equipment Co., Ltd., Toronto.
W. J. Westaway Co., Hamilton.

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CANOPIES
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COFFEE URNS
WATER COOLERS
LAUNDRY BOILERS

STEAM COOKERS
JACKET KETTLES
MILK COOLERS
BAKE OVENS
DISH WASHERS
LAUNDRY DRYERS

POTATO PEELERS
BREAD SLICERS
MIXING MACHINES
UTENSILS and TOOLS
LAUNDRY DRYERS

CO-OPERATION

Kitchen equipment must meet the most exacting requirements, and it is essential that the Architect and Owner be advised as to space requirements and arrangement of fixtures to assure the best results in economy of operation and service.

We will confer with Architects and Owners and submit drawings, showing equipment with each connection required, for use of the Engineers.

Specifications are submitted to accompany drawings describing all fixtures in detail.

Estimates prepared to cover specifications. If the equipment has been planned and specification written, we will gladly quote prices on same.

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In specifying "Standard" Equipment, you are assured that the size, type and quality of the fixtures will be the same high standard for which we have been noted for a quarter of a century.

Our "Standard" Equipment is of the best design, quality and weight of material that can be built, and is properly constructed by the most experienced mechanics.

We are selling agents for every Labor-saving Device of Proved Merit that is used in preparing Foods.

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SECTION F.

Food Service Equipment and Supplies

BAKERY EQUIPMENT

BREAD RACKS

Brantford Oven & Rack Co., Ltd., Brantford.
Geo. Sparrow & Co., Toronto.
Wrought Iron Range Co., Limited, Toronto.
Regal Kitchens, Limited, Montreal.
Steel Trough & Machine Co., Ltd., Tweed, Ont.

MIXING MACHINES

Geo. Sparrow & Co., Toronto.
Wrought Iron Range Co., Limited, Toronto.
Fletcher Mfg. Co., Limited, Toronto.
Pendrith Machinery Co., Ltd., Toronto.
Regal Kitchens, Limited, Montreal.

OVENS, BAKING

Brantford Oven & Rack Co., Ltd., Brantford.
Geo. Sparrow & Co., Toronto.
Wrought Iron Range Co., Ltd., Toronto.
Fletcher Mfg. Co., Ltd., Toronto.
Hubbard Portable Oven Co., Ltd., Toronto.
Pendrith Machinery Co., Ltd., Toronto.
Regal Kitchens, Limited, Montreal.

TABLES, BAKERS

Geo. Sparrow & Co., Toronto.
Brantford Oven & Rack Co., Ltd., Brantford.
Wrought Iron Range Co., Ltd., Toronto.
Regal Kitchens, Limited, Montreal.

UTENSILS, BAKING

Aluminum Co. of Canada, Limited, Toronto.
Cassidy's, Limited, Montreal and Toronto.
Geo. Sparrow & Co., Toronto.
Brantford Oven & Rack Co., Ltd., Toronto.
Wrought Iron Range Co., Limited, Toronto.
Regal Kitchens, Limited, Montreal.

CAFETERIA EQUIPMENT

COMPLETE FURNISHINGS

Geo. Sparrow Co., Toronto.
Wrought Iron Range Co., Limited, Toronto.
Regal Kitchens, Limited, Montreal.

TOPS, TABLE

Vitrified
Sani-Products Co., Limited, Toronto.
Vitrolite Company, Toronto.
Monel Metal
Brantford Oven & Rack Co., Ltd., Brantford.
Geo. Sparrow & Co., Toronto.
Wrought Iron Range Co., Limited, Toronto.
International Nickel Co., New York.
Regal Kitchens, Limited, Montreal.

CONVEYORS, FOOD

Brantford Oven & Rack Co., Limited, Brantford.
Metal Craft Co., Limited, Grimsby, Ont.
Geo. Sparrow & Company, Toronto.
Wrought Iron Range Co., Limited, Toronto.
Regal Kitchens, Limited, Montreal.

COOKING UTENSILS

All kinds
Aluminum Co. of Canada, Limited, Toronto.
Cassidy's, Limited, Montreal and Toronto.
Geo. Sparrow & Company, Toronto.
Wrought Iron Range Co., Limited, Toronto.
Thos. Davidson Mfg. Co., Limited, Montreal.
Ideal Aluminum Products, Limited, Toronto.
McClary Mfg. Co., London.
Sheet Metal Products of Canada, Ltd., Toronto.
Regal Kitchens, Limited, Montreal.

COOKS' CLOTHING

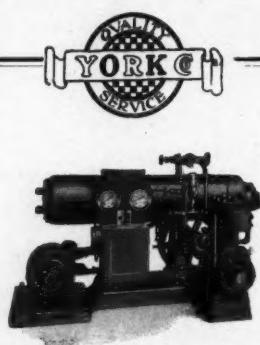
Corbett-Cowley Limited, Toronto.

DIET KITCHEN EQUIPMENT

Cabinets, Food

Brantford Oven & Rack Co., Limited, Brantford.
Metal Craft Co., Limited, Grimsby, Ont.
Geo. Sparrow & Company, Toronto.
Wrought Iron Range Co., Ltd., Toronto.
Regal Kitchens, Limited, Montreal.
Steel Equipment Co., Limited, Ottawa.

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 Geo. Sparrow & Company, Toronto.
 Wrought Iron Range Co., Limited, Toronto.
 Canadian General Electric Co., Ltd., Toronto.
 Canadian Westinghouse Co., Ltd., Hamilton.
 McClary Mfg. Co., London.
 G. R. Prowse Range Co., Montreal.

Refrigerators

John Hillock & Co., Limited, Toronto.
 Canadian Jewett Refrigerator Co., Bridgeburg, Ont.
 Eureka Refrigerator Co., Ltd., Owen Sound, Ont.
 Linde Canadian Refrigerator Co., Ltd., Montreal.
 Renfrew Refrigerator Co., Ltd., Renfrew, Ont.
 Sanderson-Harold Co., Limited, Paris, Ont.

DISHWASHING EQUIPMENT**Dishwashing Machines**

Geo. Sparrow & Company, Toronto.
 Wrought Iron Range Co., Limited, Toronto.
 London Metal Products, Limited, London.
 Paragon Products, Limited, Toronto.
 Regal Kitchens, Limited, Montreal.

Dishwashing Cleaners

E. W. Gillett Co., Limited, Toronto.
 Soclean Limited, Toronto.
 Alpha Chemical Co., Limited, Kitchener, Ont.
 Cudahy Packing Company, Toronto.
 Gold Dust Corporation, Montreal.
 Lever Brothers, Limited, Toronto.
 Pugsley, Dingman & Co., Limited, Toronto.
 Royal Crown Soaps, Limited, Winnipeg.

Sinks

Geo. Sparrow & Company, Toronto.
 Wrought Iron Range Co., Ltd., Toronto.
 Crane Limited, Montreal.
 James Robertson Co., Limited, Montreal.
 Standard Sanitary Mfg. Co., Limited, Toronto.

FOOD CARTS

See Firms listed under Food Conveyors.

ELECTRIC RANGES

See Firms listed under Kitchen Equipment.

KITCHEN EQUIPMENT**Canopies, Hoods**

Geo. Sparrow & Company, Toronto.
 Brantford Oven & Rack Co., Ltd., Brantford.
 Metal Craft Co., Limited, Grimsby, Ont.
 Wrought Iron Range Co., Limited, Toronto.
 Gurney Foundry Co., Limited, Toronto.
 Regal Kitchens, Limited, Montreal.

Chopping Machines

Geo. Sparrow & Company, Toronto.
 Wrought Iron Range Co., Ltd., Toronto.

Cutlery, Plated and Stainless Steel.

Cassidy's Limited, Montreal.
 Geo. Sparrow & Company, Toronto.
 Wrought Iron Range Co., Limited, Toronto.
 Canadian Wm. A. Rogers, Limited, Toronto.
 International Silver Co. of Canada, Ltd., Toronto.
 McGlashan Clarke Co., Limited, Niagara Falls, Ont.
 William Rogers Mfg. Co., Niagara Falls, Ont.

Kettles, Steam Jacketted

Aluminum Co. of Canada, Limited, Toronto.
 Geo. Sparrow & Company, Toronto.
 Wrought Iron Range Co., Limited, Toronto.
 Booth-Coulter Copper & Brass Co., Ltd., Toronto.
 Sheet Metal Products Co. of Canada, Ltd., Toronto.

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Chamois	Oil Cans
Cleansers (all kinds)	Oily Waste Cans
Chloride of Lime	Pails
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Disinfectors	Scrubbing Mats
Disinfectants	Serviettes
Dust Pans	Sidewalk Scrapers
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Easywhite	Shovels
Extension Handles	Soap Powder
Floor Cloths	Soclean Sweeping Compound
Floor Oils	Sponges
Floor Oilers	Sprayers
Floor Wax	Sanitary Towels
Force Cups	Squeegees—Floor and Window
Force Pumps	Toilet Room Supplies
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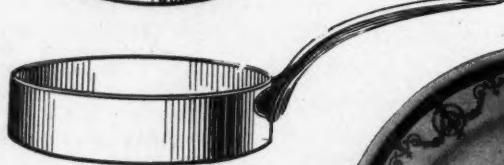
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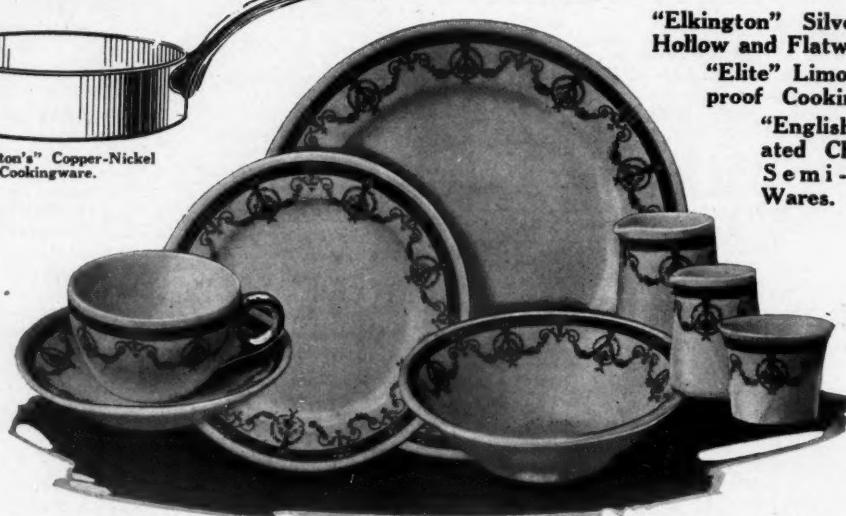
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Geo. Sparrow & Company, Toronto.
Wrought Iron Range Co., Limited, Toronto.
E. T. Wright Co., Limited, Hamilton.
Regal Kitchens, Limited, Montreal.

Meat and Bread Slicers

George Sparrow & Company, Toronto.
Wrought Iron Range Co., Ltd., Toronto.
Gurney Foundry Co., Ltd., Toronto.
International Business Machines, Ltd., Toronto.
Regal Kitchens, Limited, Montreal.
Hobart Mfg. Company, Toronto.
A. J. Deere Co., Limited, Toronto.

Ranges, Electric

Brantford Oven & Rack Co., Ltd., Brantford.
Beach Foundry, Limited, Ottawa.
Canadian General Electric Co., Limited, Toronto.
Canadian Westinghouse Co., Limited, Hamilton.
Gurney Foundry Co., Limited, Toronto.
McClary Mfg. Co., London.
Moffats Limited, Weston, Ont.

Gas

Geo. Sparrow & Company, Toronto.
Wrought Iron Range Co., Limited, Toronto.
Beach Foundry Limited, Ottawa.
Consumers' Gas Company, Toronto.
McClary Mfg. Company, London.
G. R. Prowse Range Co., Limited, Montreal.
Regal Kitchens, Limited, Montreal.

Heavy Duty

Geo. Sparrow & Company, Toronto.
Wrought Iron Range Co., Limited, Toronto.
Canadian General Electric Co., Limited, Toronto.
G. R. Prowse Range Co., Limited, Montreal.
Regal Kitchens, Limited, Montreal.

MEAT CUTTING ROOM

Butcher Blocks

Geo. Sparrow & Company, Toronto.
Wrought Iron Range Co., Limited, Toronto.
Regal Kitchens, Limited, Montreal.
Toronto Butchers Supply Co., Limited, Toronto.

Supplies

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Wrought Iron Range Co., Limited, Toronto.
Regal Kitchens, Limited, Montreal.
Toronto Butchers Supply Co., Limited, Toronto.

PAPER GOODS

See Firms listed under Paper Goods in Section C.

REFRIGERATING MACHINERY

Canadian Ice Machine Co., Limited, Toronto.
Jack Frost Ice Machine Co., Limited, Toronto.
Delco Light Co., of Canada, Limited, Toronto.
Keith Electric Refrigerator Co., Ltd., Leaside, Ont.
Kelvinator Co. of Canada, Toronto.
Linde Canadian Refrigerator Co., Limited, Montreal.

SCALES, KITCHEN

Geo. Sparrow & Company, Toronto.
Wrought Iron Range Co., Limited, Toronto.
Canadian Fairbanks-Morse Co., Limited, Montreal.
Canadian Toledo Scale Co., Limited, Windsor, Ont.
Gurney Scale Co., Limited, Hamilton.
International Business Machines Co., Ltd., Toronto.
Wilson Scale & Machinery Corp., Limited, Toronto.

SLICERS

See Firms Listed under Meat and Bread Slicers.



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Canadian General Electric Co., Limited, Toronto.
Canadian Westinghouse Co., Limited, Hamilton.
Canadian Radiant Electric Co., Grimsby.
Equator Mfg. Co., Limited, Hamilton.
National Electric Heating Co., Limited, Toronto.
Renfrew Electric Products, Limited, Grimsby, Ont.

TRAYS

Cassidy's, Limited, Montreal and Toronto.
Metal Craft Co., Limited, Grimsby, Ont.
Geo. Sparrow & Company, Toronto.
Wrought Iron Range Co., Limited, Toronto.
Malcolm & Souter Furniture Co., Limited, Hamilton.
Otterville Mfg. Co., Limited, Otterville, Ont.

URNS

Cassidy's, Limited, Montreal and Toronto.
Geo. Sparrow & Company, Toronto.
Wrought Iron Range Co., Limited, Toronto.
Booth-Coulter Copper & Brass Co., Ltd., Toronto.
Regal Kitchens, Limited, Montreal.
Gurney Foundry Co., Limited, Toronto.

WARMERS

Dish and Food
Brantford Oven & Rack Co., Limited, Brantford, Ont.
Geo. Sparrow & Company, Toronto.
Wrought Iron Range Co., Limited, Toronto.
Gurney Foundry Co., Limited, Toronto.
Regal Kitchens, Limited, Montreal.
G. R. Prowse Co., Limited, Montreal.

WATER COOLERS

Geo. Sparrow & Company, Toronto.
Wrought Iron Range Co., Limited, Toronto.
Thos. Davidson Mfg. Co., Limited, Montreal.
McClary Mfg. Company, London.
Perfection Cooler Co., Limited, Toronto.
Geo. R. Prowse Range Co., Limited, Montreal.
Sheet Metal Products Co. of Canada, Ltd., Toronto.
G. H. Wood & Company, Toronto.

TABLEWARE

ALUMINUM

Aluminum Co. of Canada, Limited, Toronto.
Cassidy's, Limited, Montreal and Toronto.
Geo. Sparrow & Company, Toronto.
Wrought Iron Range Co., Limited, Toronto.
Aluminum Ware Mfg. Co., Limited, Oakville, Ont.
Sheet Metal Products Co. of Canada, Ltd., Toronto.

CHINA

Cassidy's, Limited, Montreal and Toronto.
Nerlich & Company, Toronto.

CUTLERY

Cassidy's, Limited, Montreal and Toronto.
Geo. Sparrow & Company, Toronto.
Wrought Iron Range Co., Limited, Toronto.
Canadian Wm. A. Rogers, Limited, Toronto.
International Silver Co., of Canada, Limited, Toronto.
McGlashan Clarke Co., Limited, Niagara Falls, Ont.
Wm. Rogers Mfg. Co., Limited, Niagara Falls, Ont.

GLASS TUMBLERS, ETC.

Cassidy's, Limited, Montreal and Toronto.
Consumers Glass Co., Limited, Ville St. Pierre, Que.
Dominion Glass Co., Limited, Montreal.
Nerlich & Company, Toronto.

SILVER

Hollow and Flatware
Cassidy's, Limited, Montreal and Toronto.

VACUUM BOTTLES

Cassidy's, Limited, Montreal and Toronto.
Geo. Sparrow & Company, Toronto.
Wrought Iron Range Co., Limited, Toronto.
Thermos Bottle Co., Limited, Toronto.

SECTION G.

Foods and Beverages

APPLES, CANNED

Canadian Canners, Limited, Hamilton.
 Harvest Co., Limited, Hamilton.
 Libby, McNeill & Libby of Can., Ltd., Chatham.
 Okanagan Packers, Limited, Kelowna, B.C.
 Vineland Canners, Limited, Vineland Station, Ont.

Pure Gold Mfg. Co., Limited, Toronto.
 White Swan Spices & Cereals, Ltd., Toronto.

APRICOTS, CANNED

Canadian Canners, Limited, Hamilton.
 Libby, McNeill & Libby, of Can., Ltd., Chatham.

BEEF EXTRACTS

Bovril, Limited, Montreal.
 Joseph Picard, Montreal.

BAKING POWDER

E. W. Gillett Co., Limited, Toronto.
 Coleman Baking Powder, Limited, Brockville, Ont.
 Dalton Bros., Limited, Toronto.
 Egg-O Baking Powder Co., Ltd., Hamilton.
 MacLarens Limited, Hamilton.
 Mayer Co., Limited, Winnipeg.
 Ocean Mills, Limited, Montreal.

BISCUITS

Canada Bread Co., Limited, Toronto.
 Christie Brown & Co., Limited, Toronto.
 David & Frere, Montreal.
 McCormick Mfg. Co., Limited, London.
 Moirs Limited, Halifax.
 D. S. Perrin & Co., Ltd., London.
 Telfer Biscuit Co., Limited, Toronto.
 Geo. Weston, Limited, Toronto.

BRAN

Kellogg Co. of Canada, Limited, London.
 Canadian Postum Cereal Co., Limited, Toronto.
 Good Health Food Co., Limited, London.

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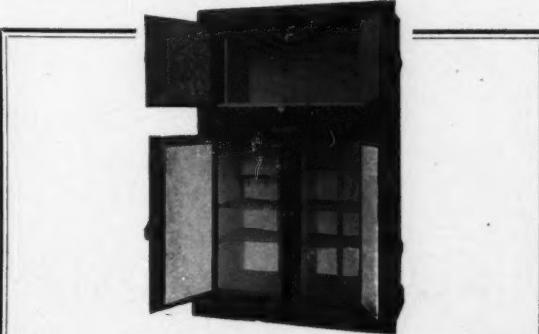
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Kellogg Co. of Canada, Limited, London.
Canadian Shredded Wheat Co., Limited, Niagara Falls, Ont.
Good Health Food Co., Limited, London.
Quaker Oats Company, Peterborough, Ont.
Robin Hood Mills, Limited, Calgary.
Roman Meal Co., Limited, Toronto.
White Swan Spices & Cereals, Limited, Toronto.

BUTTER

P. Poulin & Co., Ltd., Montreal.
Bowes Co., Limited, Toronto.
British Mfrs. Corp., Limited, Vancouver.
Brookfield Creamery Co., Limited, Brookfield, N.S.
City Dairy Co., Limited, Toronto.
Wm. Davies Co., Limited, Toronto.
Harris Abattoir Co., Limited, Toronto.
Montreal Dairy Co., Limited, Montreal.
Swift Canadian Co., Limited, Toronto.
Whyte Packing Co., Limited, Stratford, Ont.

CEREALS

See Firms Listed Under Breakfast Foods.

CHOCOLATE

Walter Baker & Co., Limited, Montreal.
Cowan Co., Limited, Toronto.
J. S. Fry & Sons (Canada), Limited, Montreal.
Walter M. Lowney Co. of Can., Limited, Montreal.
Todhunter, Mitchell & Co., Toronto.

COCOA

See Firms Listed under Chocolate.

COCOANUT

Canadian Cocoanut Co., Montreal.
Pilliner Products, Limited, Waterloo, Ont.
Leopold Schepp Company, Toronto.
Wilson Chemical Co., Limited, St. John, N.B.

COFFEE

Wm. Braid & Co., Limited, Vancouver.
Campbell Bros. & Wilson, Limited, Winnipeg.
Canada Spice & Specialty Mills, Limited, St. John, N.B.
Chase & Sanborn, Montreal.
Dalton Bros., Limited, Toronto.
Eby-Blain, Limited, Toronto.
Gorman Eckhert & Co., Limited, London.
R. B. Hayhoe & Co., Toronto.
MacLaren's Limited, Hamilton.
Pure Gold Mfg. Co., Limited, Toronto.
White Swan Spices & Cereals, Limited, Toronto.

CONDIMENTS

See Firms Listed under Coffee.

CORN SYRUPS

Canada Starch Co., Limited, Montreal.
St. Lawrence Starch Co., Limited, Port Credit, Ont.
Dalton Bros., Limited, Toronto.

DESSERTS

Eby-Blain, Limited, Toronto.
Gorman, Eckhert & Co., Limited, London.
R. B. Hayhoe & Co., Toronto.
Harry Horne Co., Limited, Toronto.
Imperial Extract Co., Limited, Toronto.
Jell-O Co. of Canada, Limited, Bridgeburg, Ont.
J. M. Lowes Co. of Toronto, Limited, Toronto.
MacLaren's Limited, Hamilton.
W. G. Patrick & Co., Limited, Toronto.
Pure Gold Mfg. Co., Limited, Toronto.
White Swan Spices & Cereals, Limited, Toronto.

DIABETIC FLOUR

Jireh Food Co., Brockville, Ont.
MacDowell Brothers, Brockville, Ont.
White Swan Spices & Cereals, Ltd., Toronto.

FLAVORING EXTRACTS

See Firms Listed under Desserts.

FLOUR**Barley**

F. L. Green, Greenwood, Ont.
Vancouver Milling & Grain Co., Limited, Vancouver.

Diabetic—See under Diabetic Flour.**Gluten**

Jireh Food Co., Brockville, Ont.
MacDowell Brothers, Brockville, Ont.
Milquo, Limited, Hamilton, Ont.

Graham

Dresden Flour Mills, Limited, Dresden, Ont.
F. L. Green, Greenwood, Ont.
Ottawa Valley Flour Mills, Limited, Renfrew, Ont.
White Swan Spices & Cereals, Limited, Toronto.
Winkler Milling Co., Winkler, Man.

Wheat

Maple Leaf Milling Co., Limited, Toronto.
Ogilvie Flour Mills Co., Limited, Montreal.
Robin Hood Mills, Limited, Calgary.
St. Lawrence Flour Mills Co., Limited, Montreal.
Western Canada Flour Mills Co., Limited, Toronto.

Whole Wheat

Western Canada Flour Mills Co., Limited, Toronto.
White Swan Spices & Cereals, Limited, Toronto.
Winkler Milling Co., Winkler, Man.

EGGS

P. Poulin Co., Limited, Montreal.

FRUITS, CANNED

Acadia Canners, Limited, Kingston Station, N.S.
British Columbia Fruit Growers Co., Ltd., Mission City, B.C.
Canadian Canners, Limited, Hamilton.
Harvest Co., Ltd., Hamilton.
A. & R. Loggie Co., Limited, Loggierville, N.S.
Okanagan Packers, Limited, Kelowna, B.C.
Old City Mfg. Co., Limited, Quebec, Que.
Vineland Canners, Limited, Vineland Station, Ont.
Waddell's Limited, Brantford, Ont.

GINGER ALE**Also Ginger Beer, Etc.**

Blue Label Bottling Co., Limited, Calgary.
Blue Ribbon Beverage Co., St. John, N.B.
Caledonia Springs Co., Limited, Montreal.
Coca Cola Co., of Canada, Limited, Toronto.
Douglas & King, Limited, Edmonton, Alta.
Chas. E. Hires, Toronto.
J. J. McLaughlin, Limited, Toronto.
O'Keefe's Beverages, Limited, Toronto.
Orange Crush, Limited, Toronto.
Whistle Bottling Co. of Toronto, Limited, Toronto.

GRAPE JUICE

Marsh Grape Juice Co., Niagara Falls, Ont.
E. D. Smith & Sons, Limited, Winona, Ont.
Welch Co., Limited, St. Catharines, Ont.

GROCERIES

Eby-Blain, Limited, Toronto.
Gorman, Eckher & Co., Limited, London.
MacLarens, Limited, Hamilton.
H. P. Eckardt & Co., Toronto.
W. G. Patrick & Co., Limited, Toronto.

INFANT FOODS

Canada Starch Co., Limited, Montreal
Allen & Hanburys Co., Limited, Toronto.
Canadian Milk Products Co., Limited, Toronto.
Mead, Johnson & Co., Limited, Belleville.
Milk Foods, Limited, Gananoque, Ont.
Dr. Middleton's Food Products Co., Ltd., Vancouver.
Nestles Food Co. of Canada, Limited, Montreal.

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